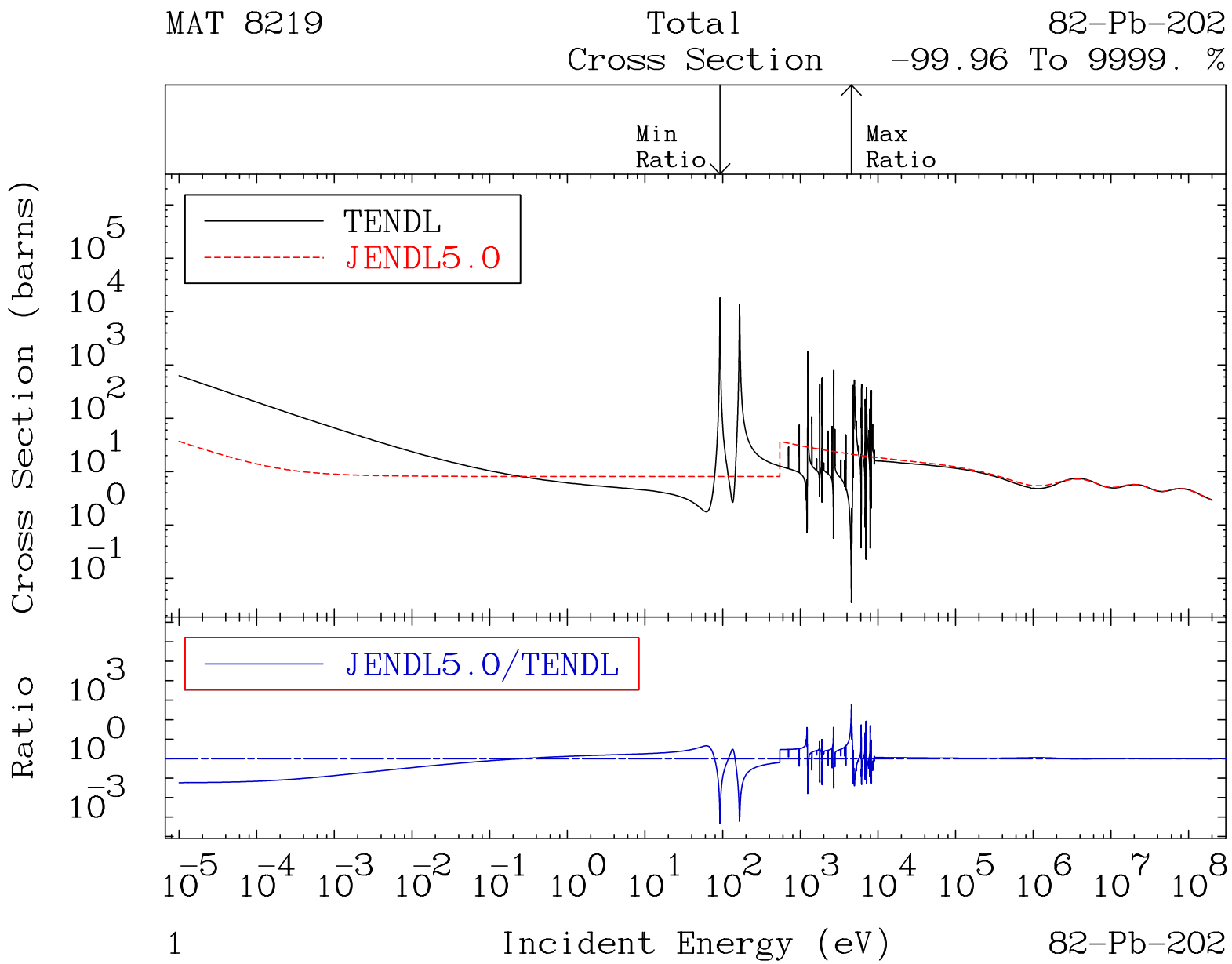
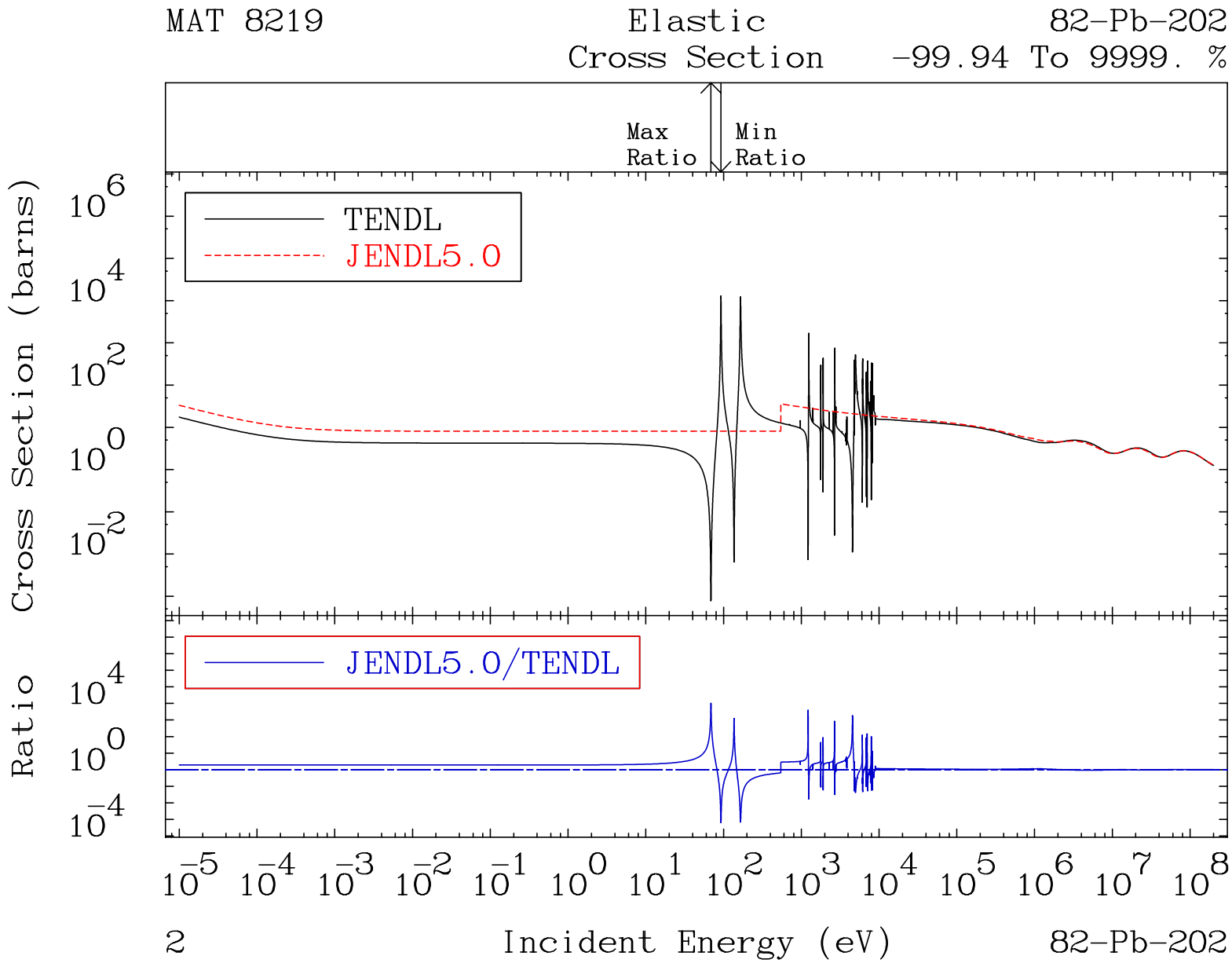
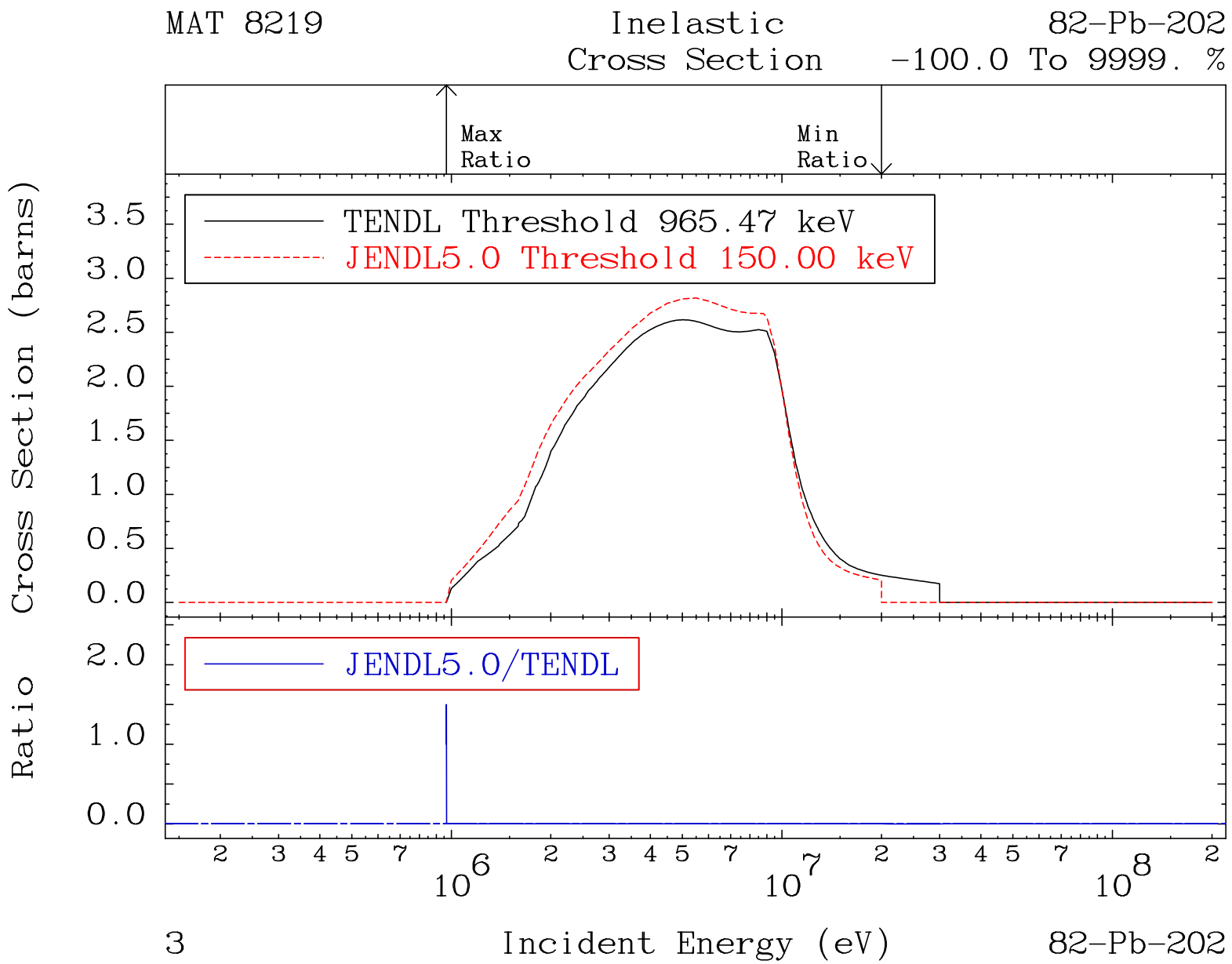
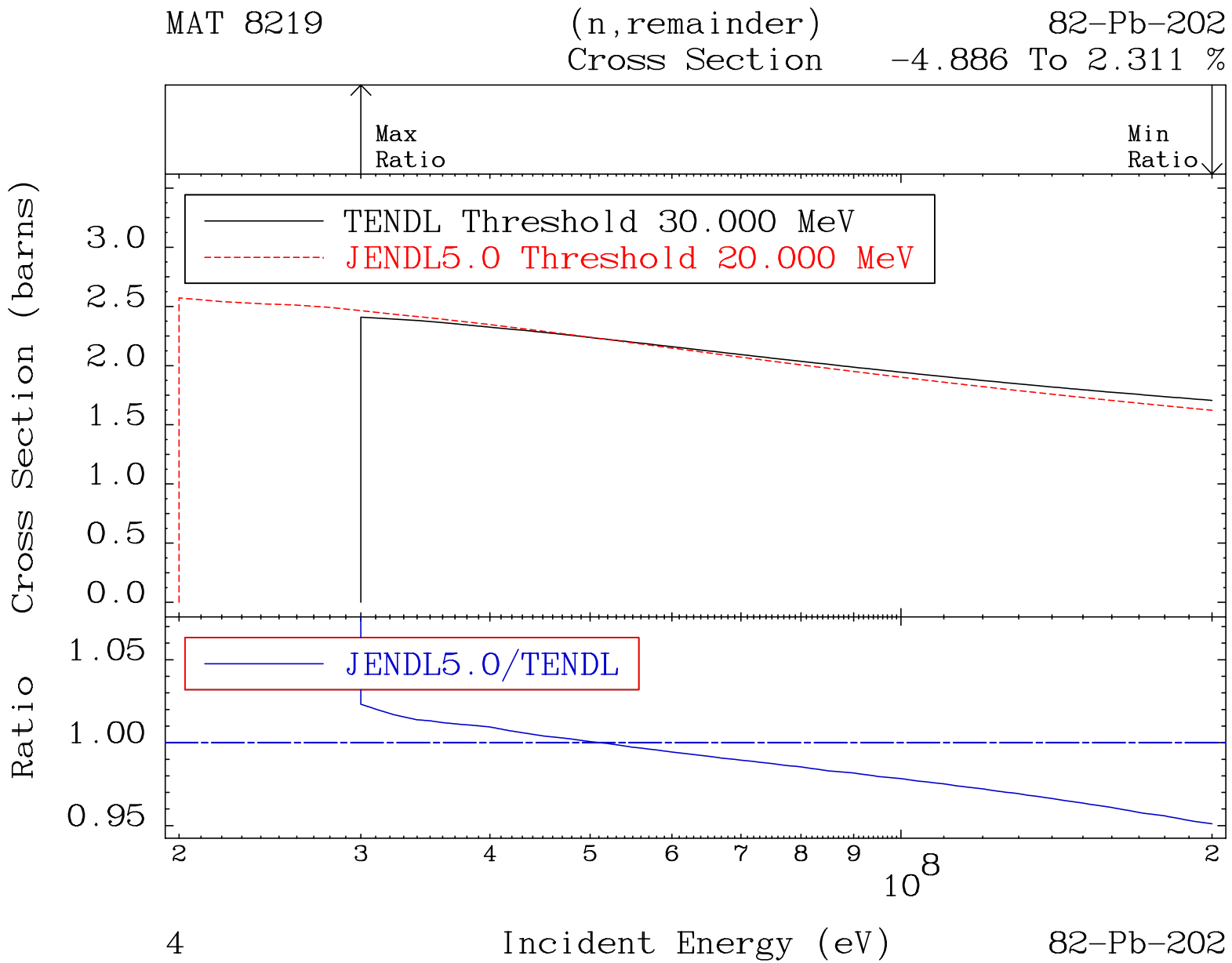
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

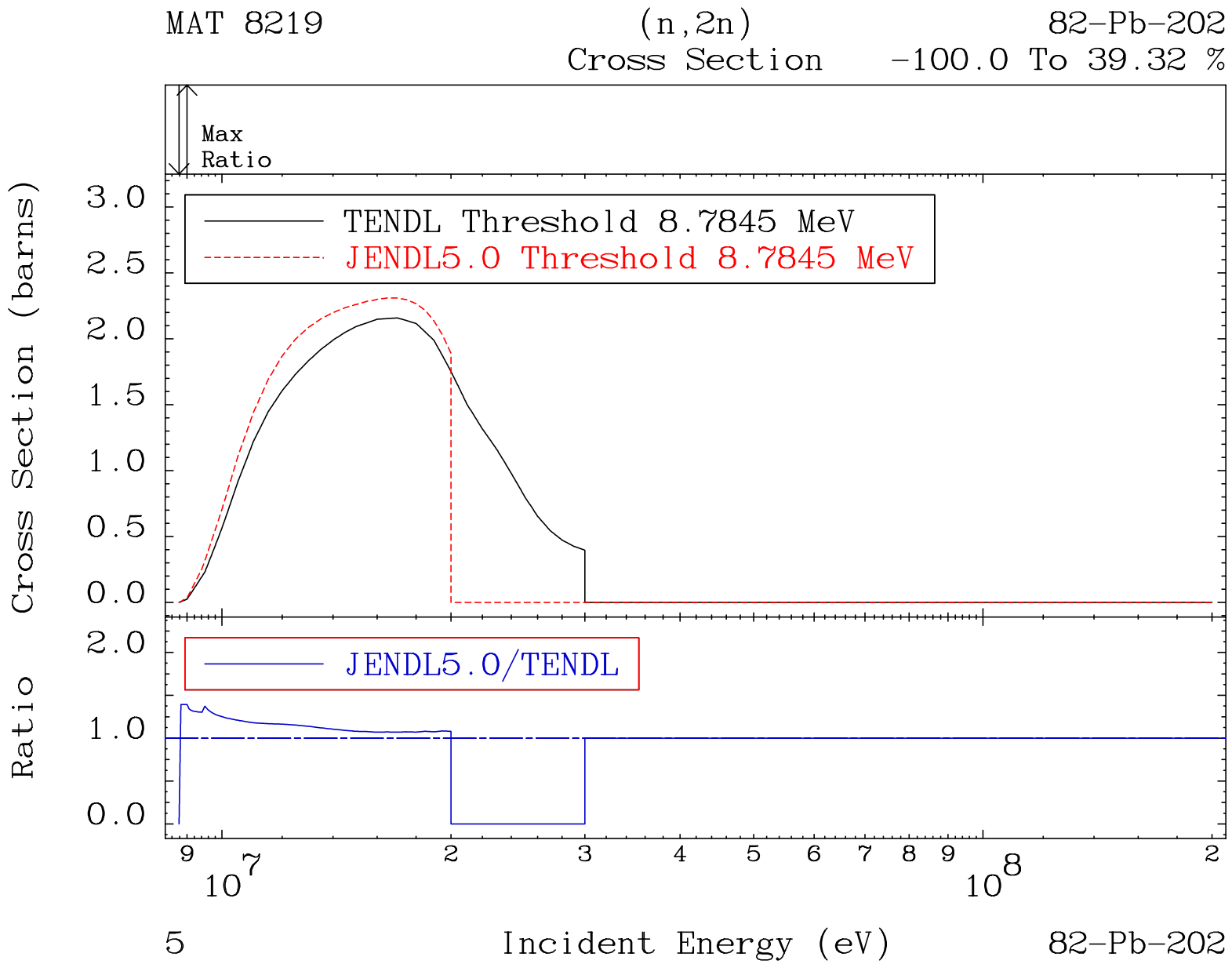
Press Mouse Button to Start

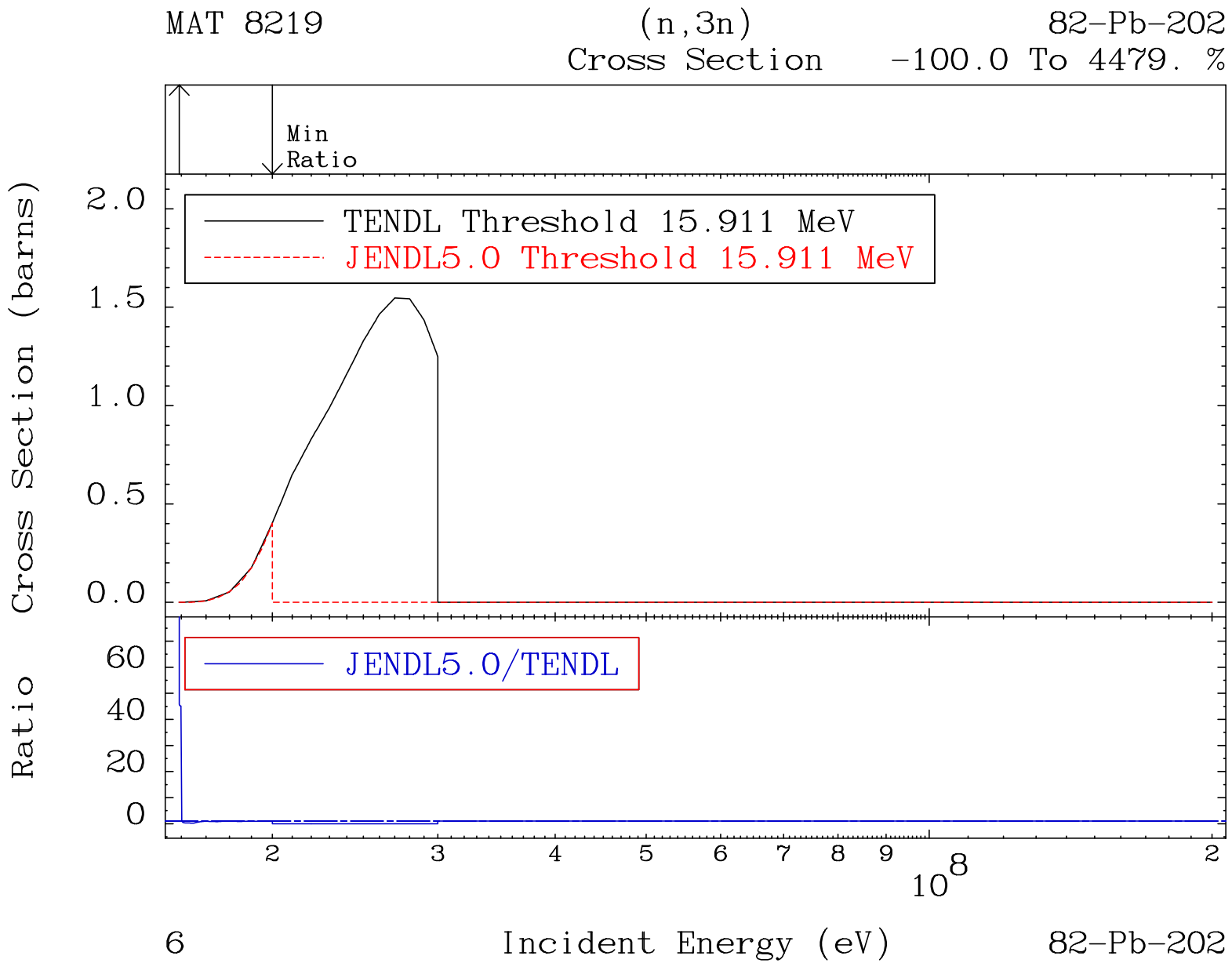

MAT 8219
Total
Cross Section
82-Pb-202
-99.96 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
1
82-Pb-202

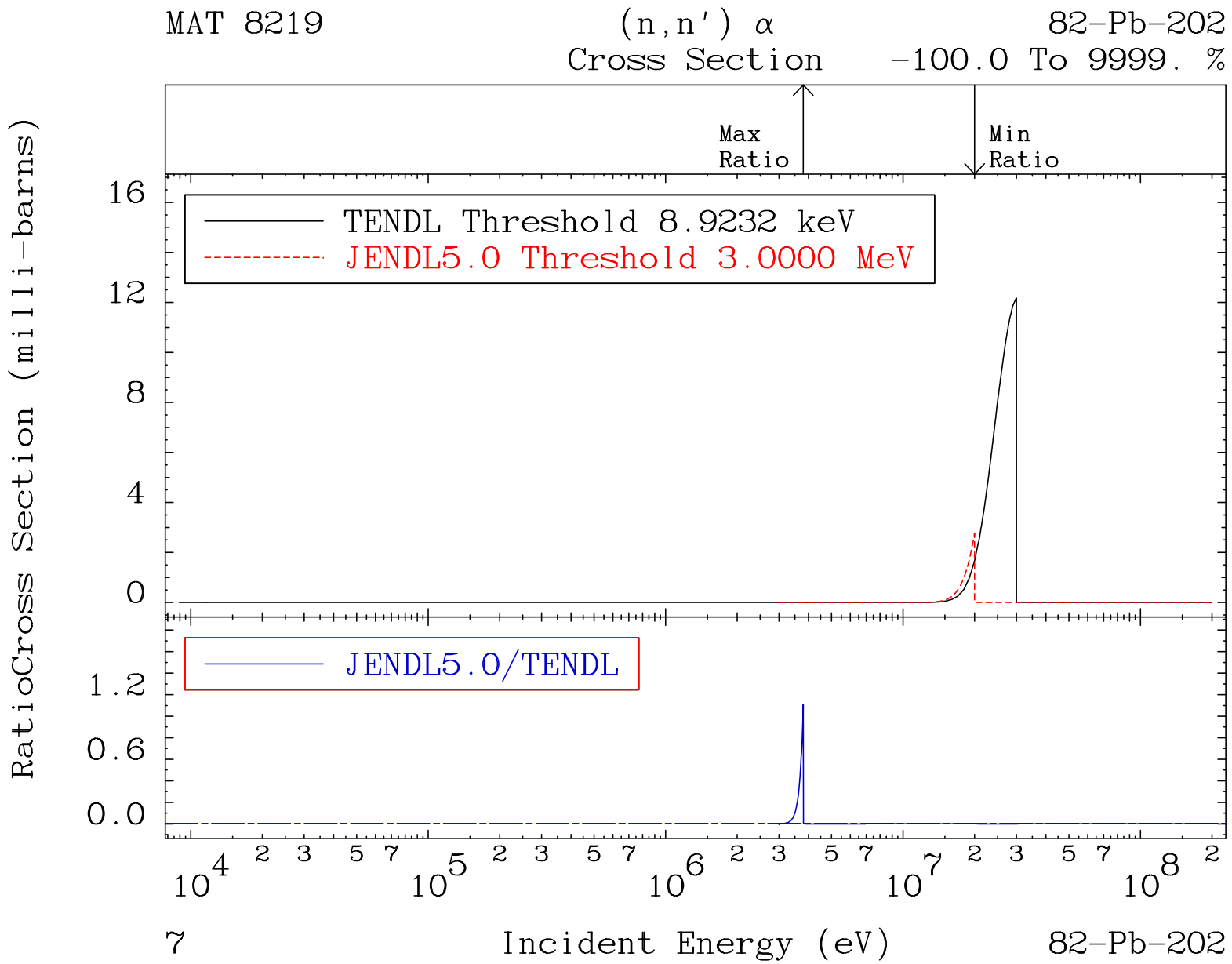

MAT 8219
Elastic
Cross Section
82-Pb-202
-99.94 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
82-Pb-202

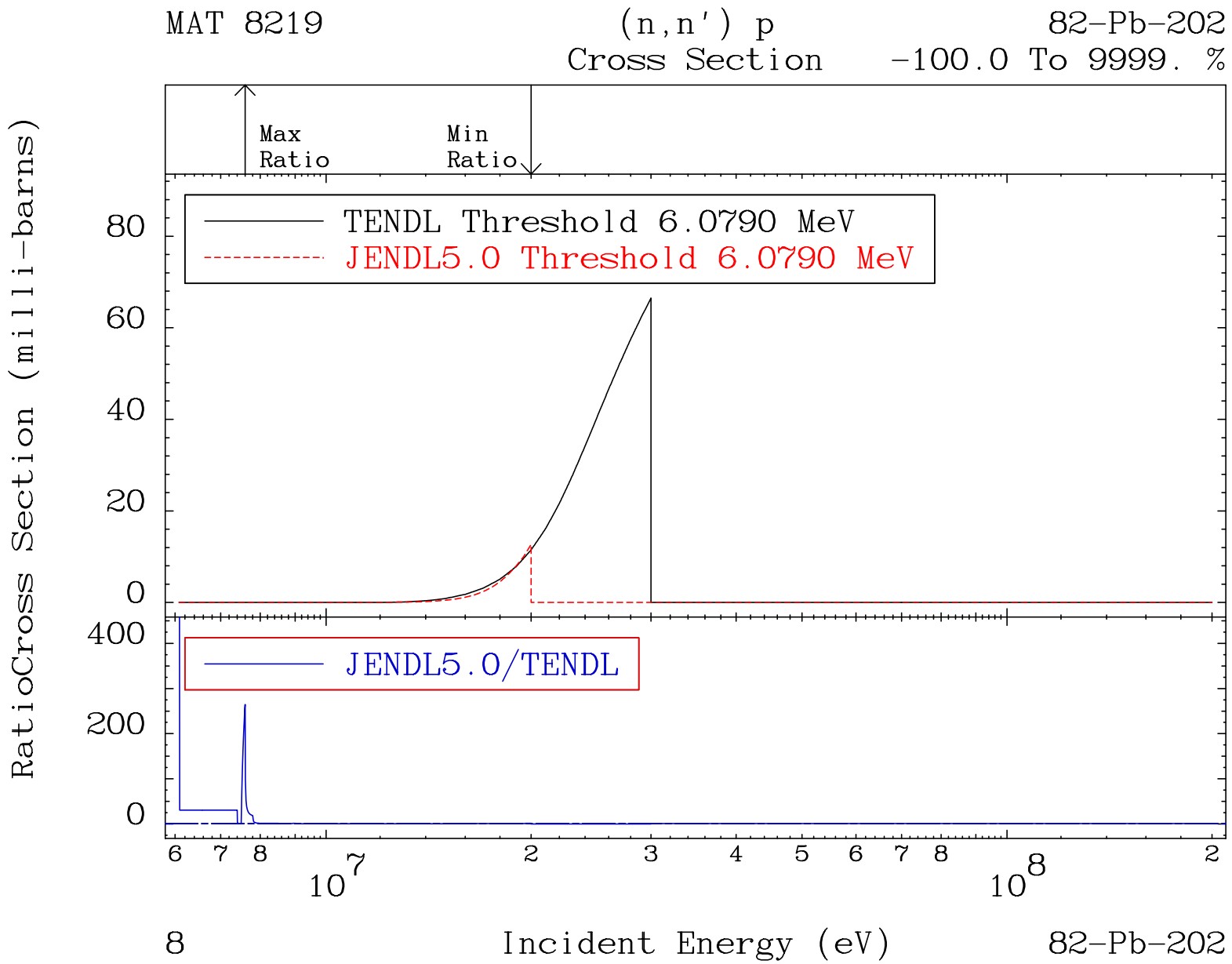

MAT 8219
Inelastic
Cross Section
82-Pb-202
-100.0 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 965.47 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
82-Pb-202

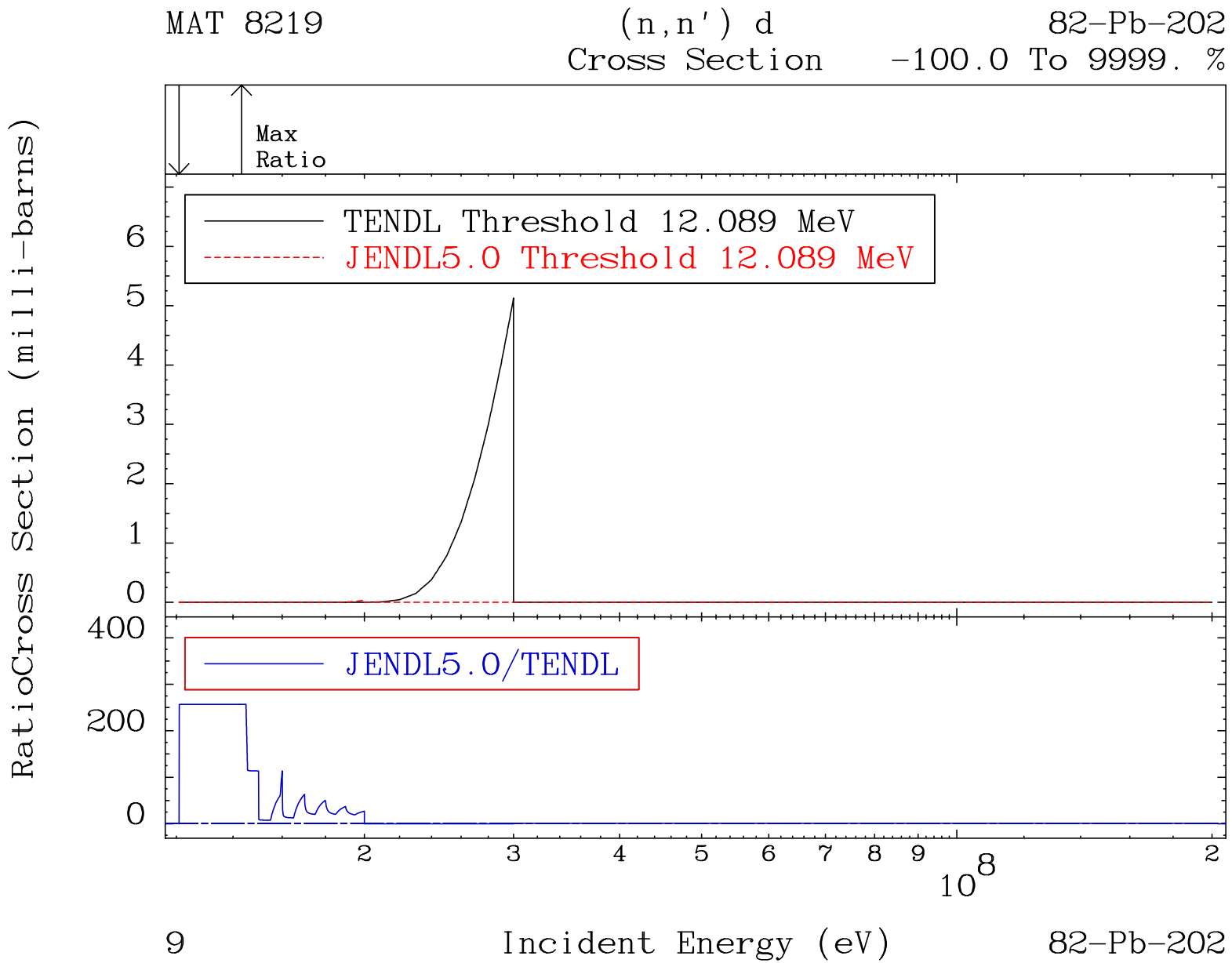

MAT 8219
(n,remainder)
Cross Section
82-Pb-202
-4.886 To 2.311 %
Max
Ratio
Min
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.05
1.00
0.95
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
82-Pb-202

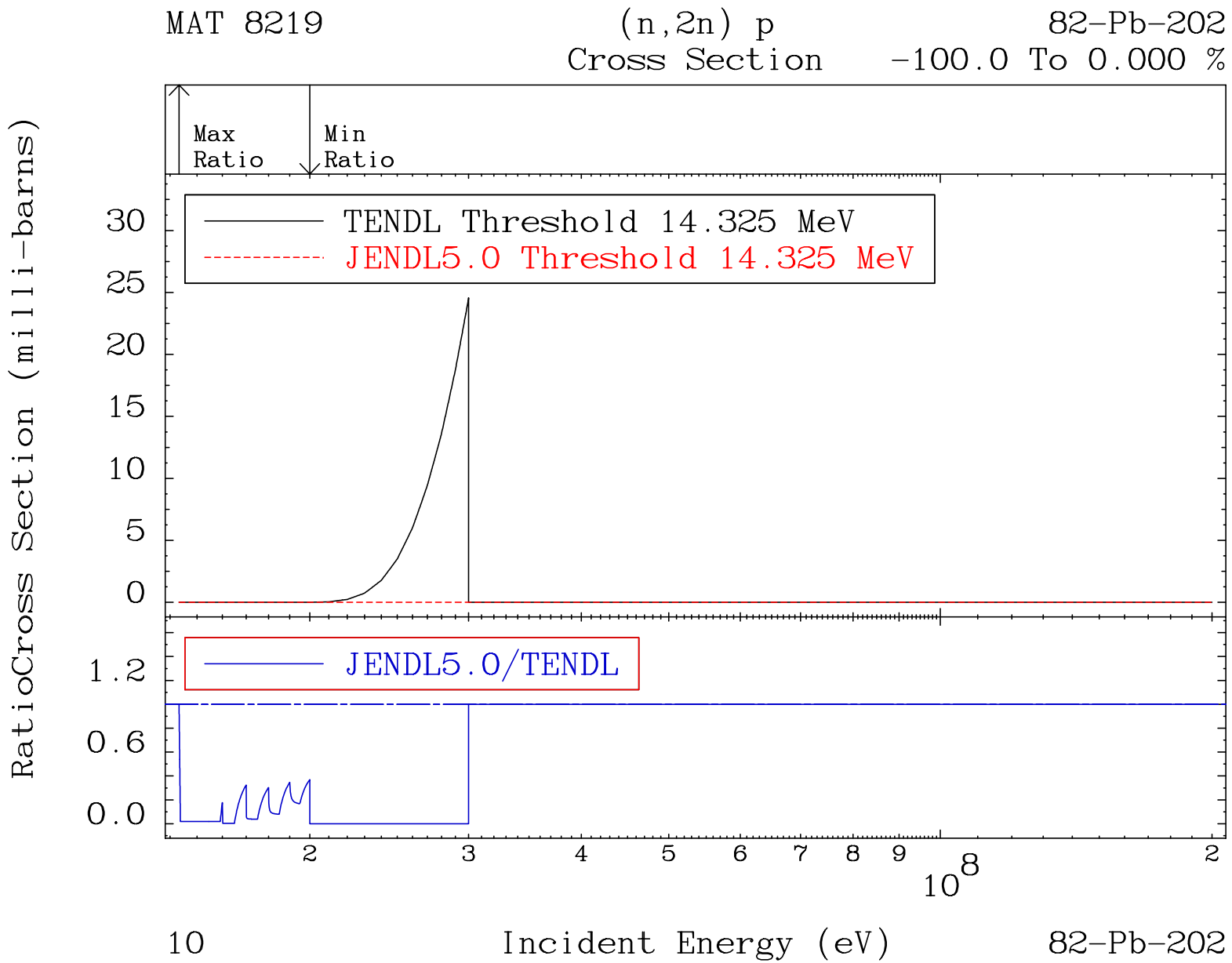

MAT 8219
(n,2n)
Cross Section
82-Pb-202
-100.0 To 39.32 %
Max
Ratio
TENDL Threshold 8.7845 MeV
JENDL5.0 Threshold 8.7845 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
82-Pb-202

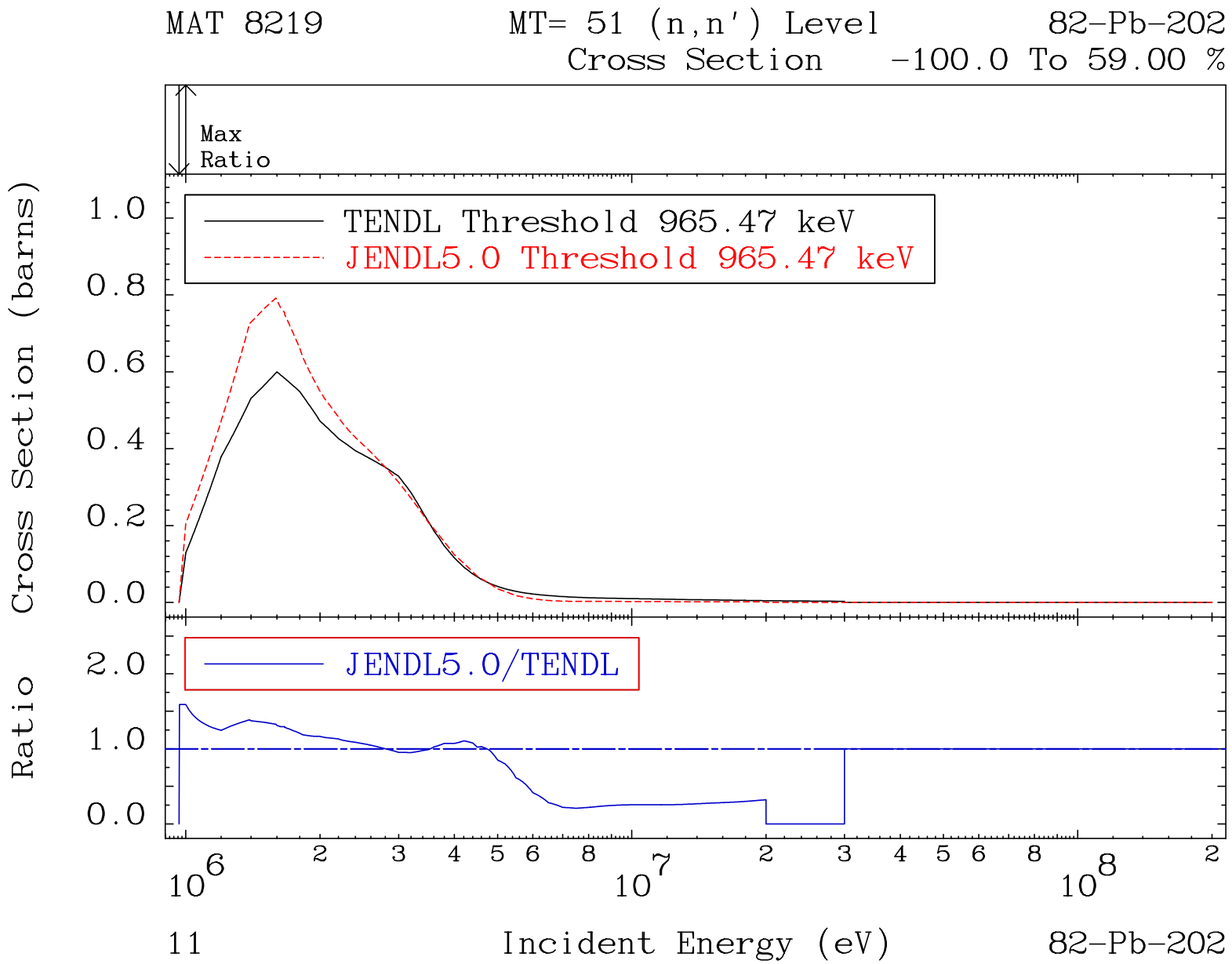

MAT 8219
(n,3n)
82-Pb-202
Cross Section
-100.0 To 4479. %
Min
Ratio
TENDL Threshold 15.911 MeV
JENDL5.0 Threshold 15.911 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
60
40
20
0
2
3
4
5
6
7
8
9
2
10^8
6
Incident Energy (eV)
82-Pb-202

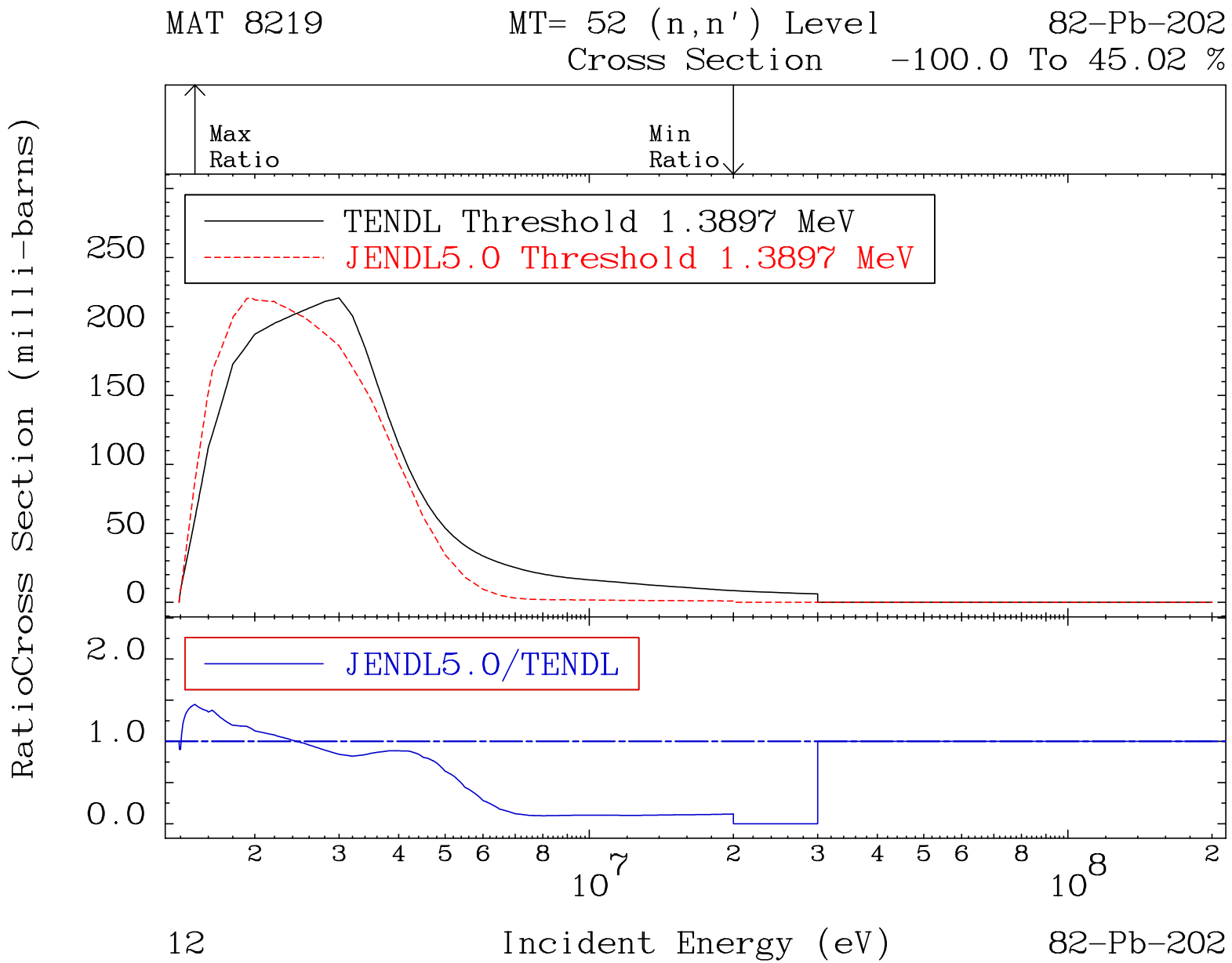

MAT 8219
(n,n') α
Cross Section
82-Pb-202
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.9232 keV
JENDL5.0 Threshold 3.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.6
0.0
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
82-Pb-202

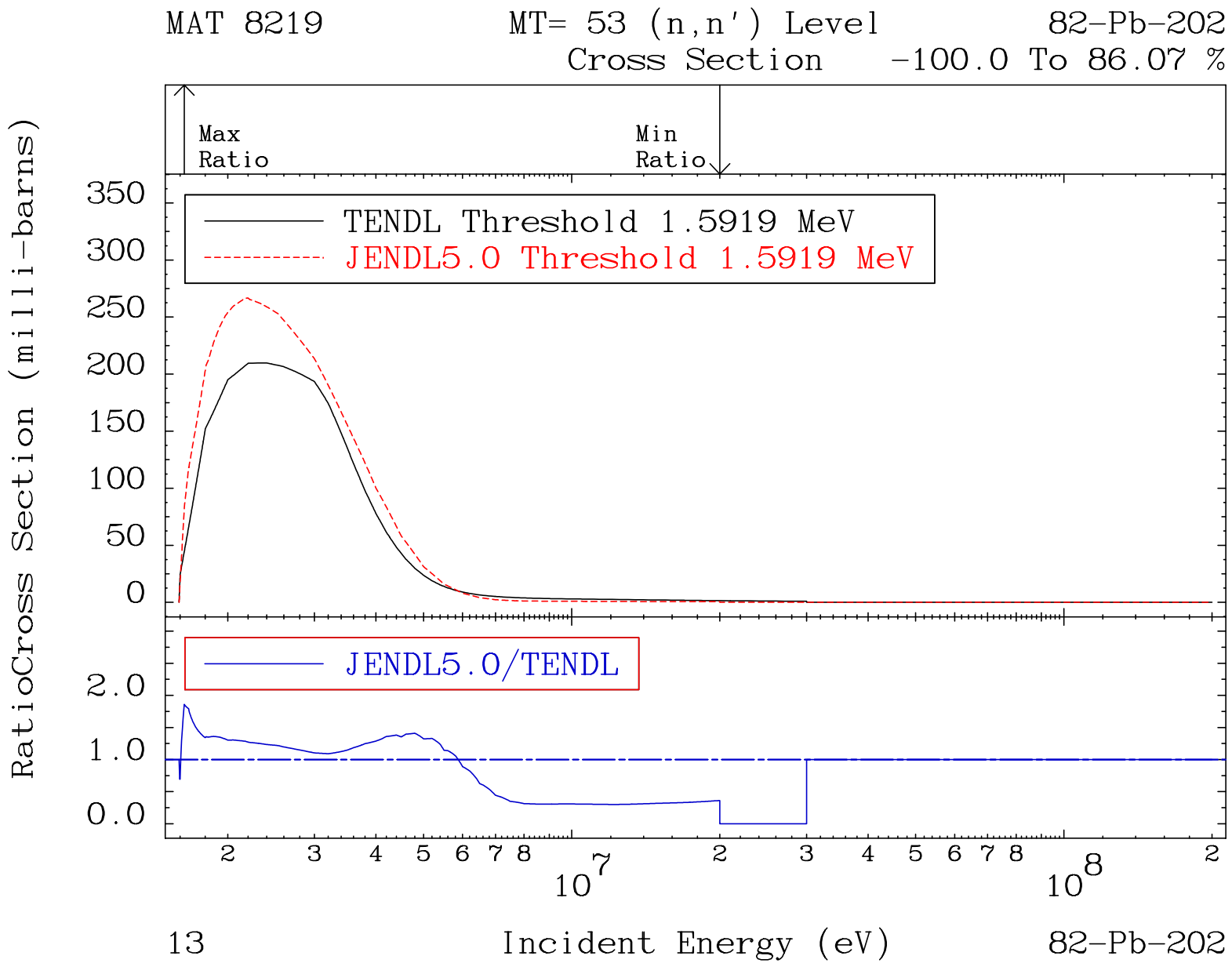

MAT 8219
(n,n') p
Cross Section
82-Pb-202
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.0790 MeV
JENDL5.0 Threshold 6.0790 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
400
200
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
8
Incident Energy (eV)
82-Pb-202

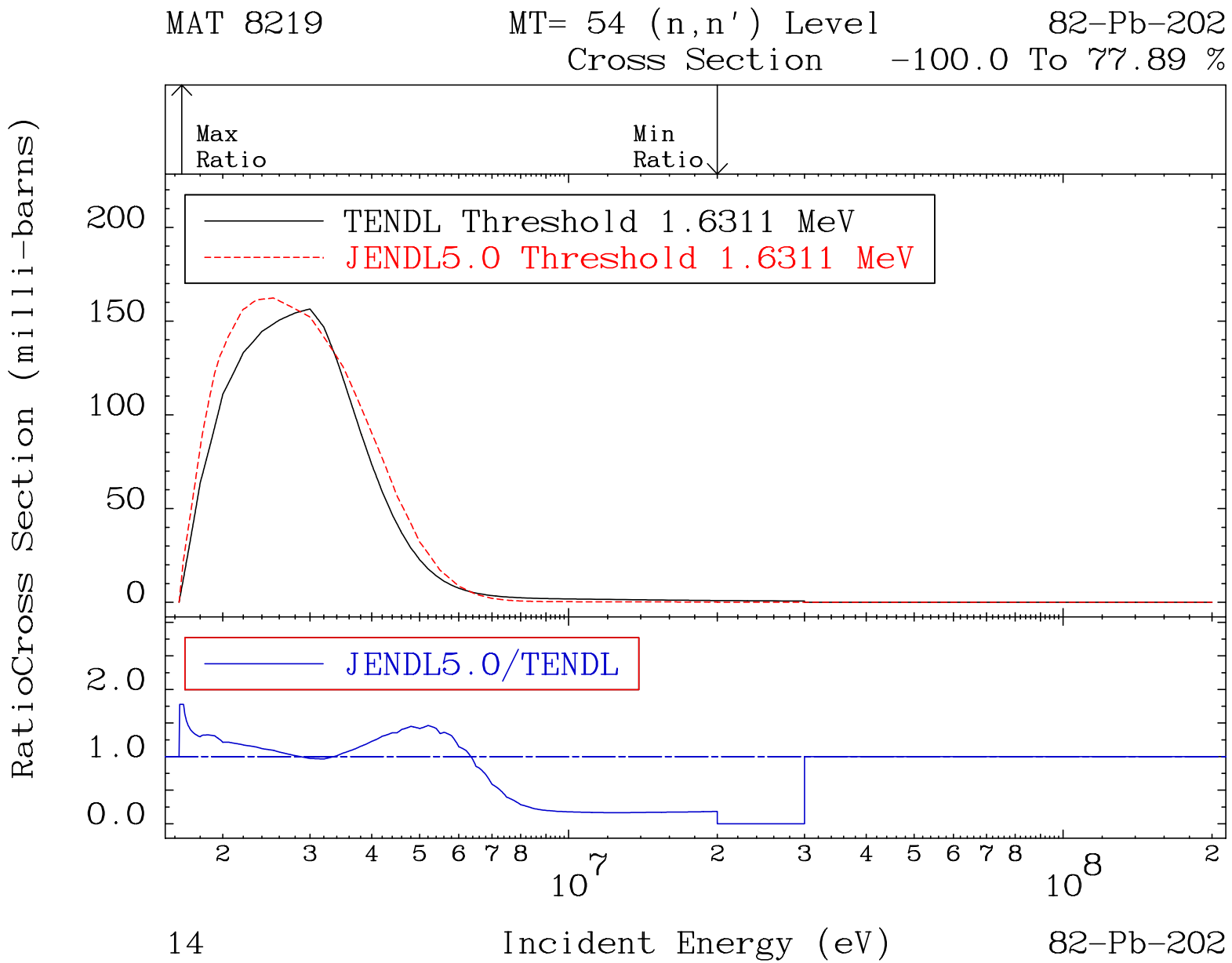

MAT 8219
(n,n') d
Cross Section
82-Pb-202
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 12.089 MeV
JENDL5.0 Threshold 12.089 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
9
82-Pb-202

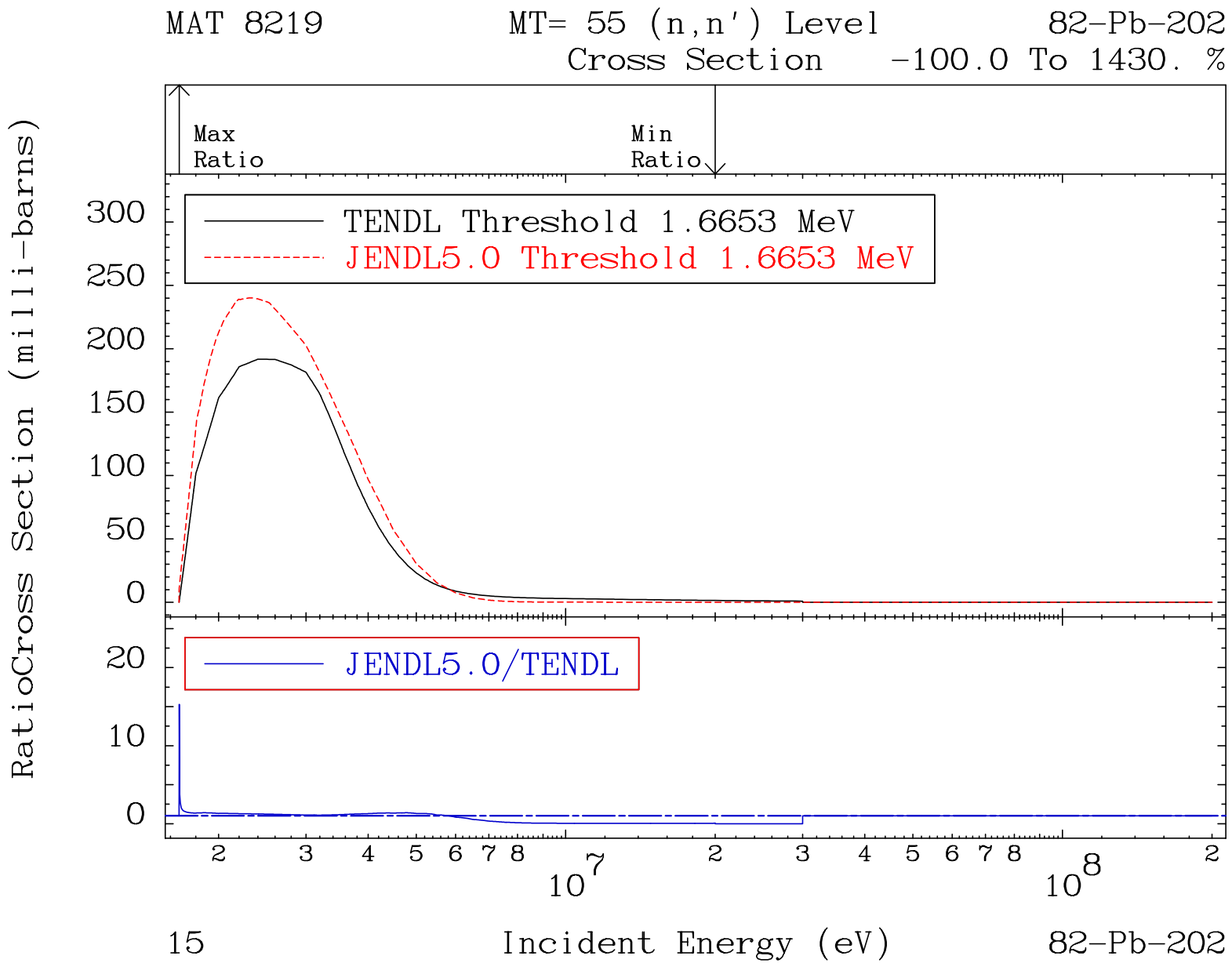

MAT 8219
(n,2n) p
Cross Section
82-Pb-202
-100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 14.325 MeV
JENDL5.0 Threshold 14.325 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
82-Pb-202

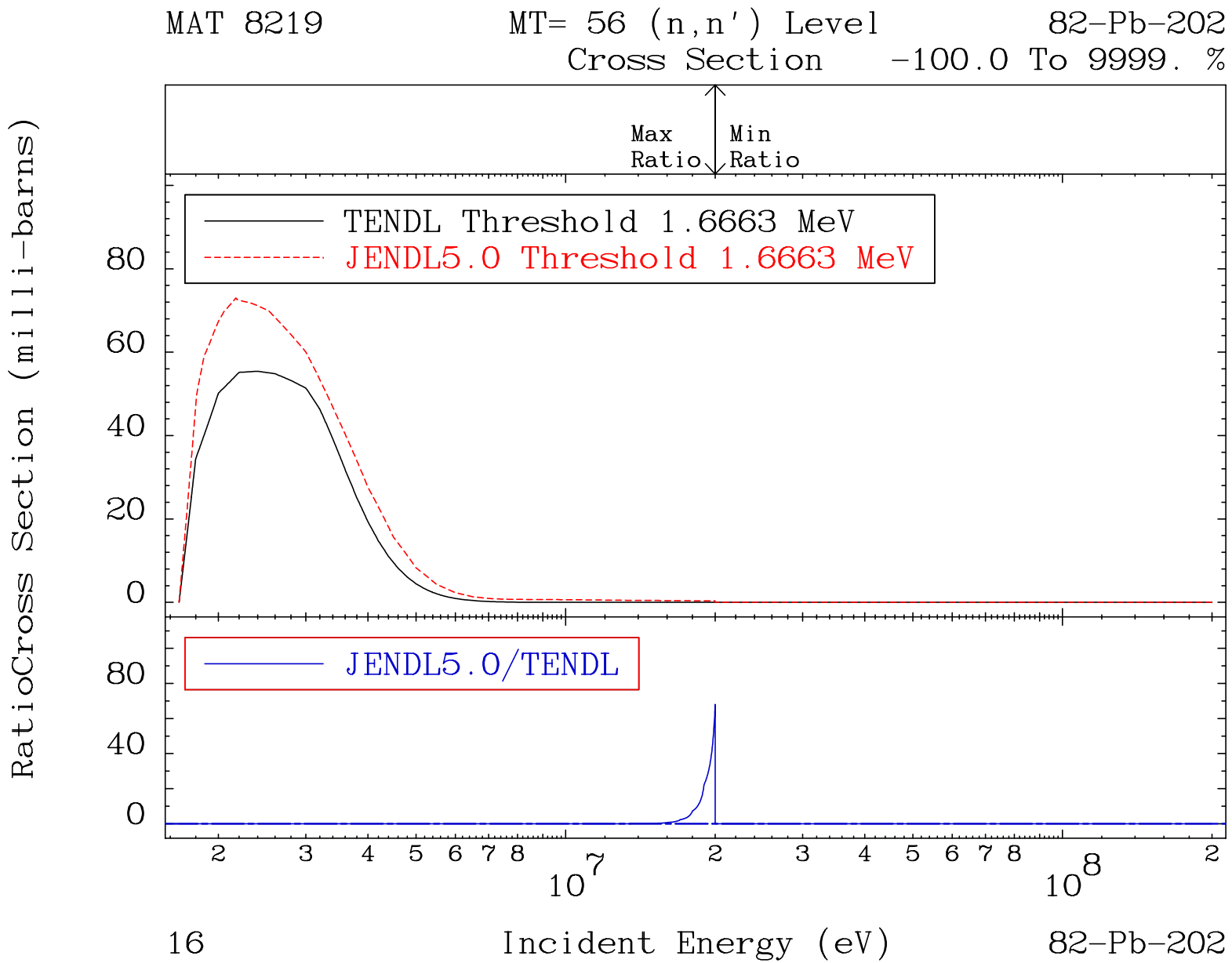

MAT 8219
MT= 51 (n,n') Level
82-Pb-202
Cross Section
-100.0 To 59.00 %
Max
Ratio
TENDL Threshold 965.47 keV
JENDL5.0 Threshold 965.47 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
11
82-Pb-202

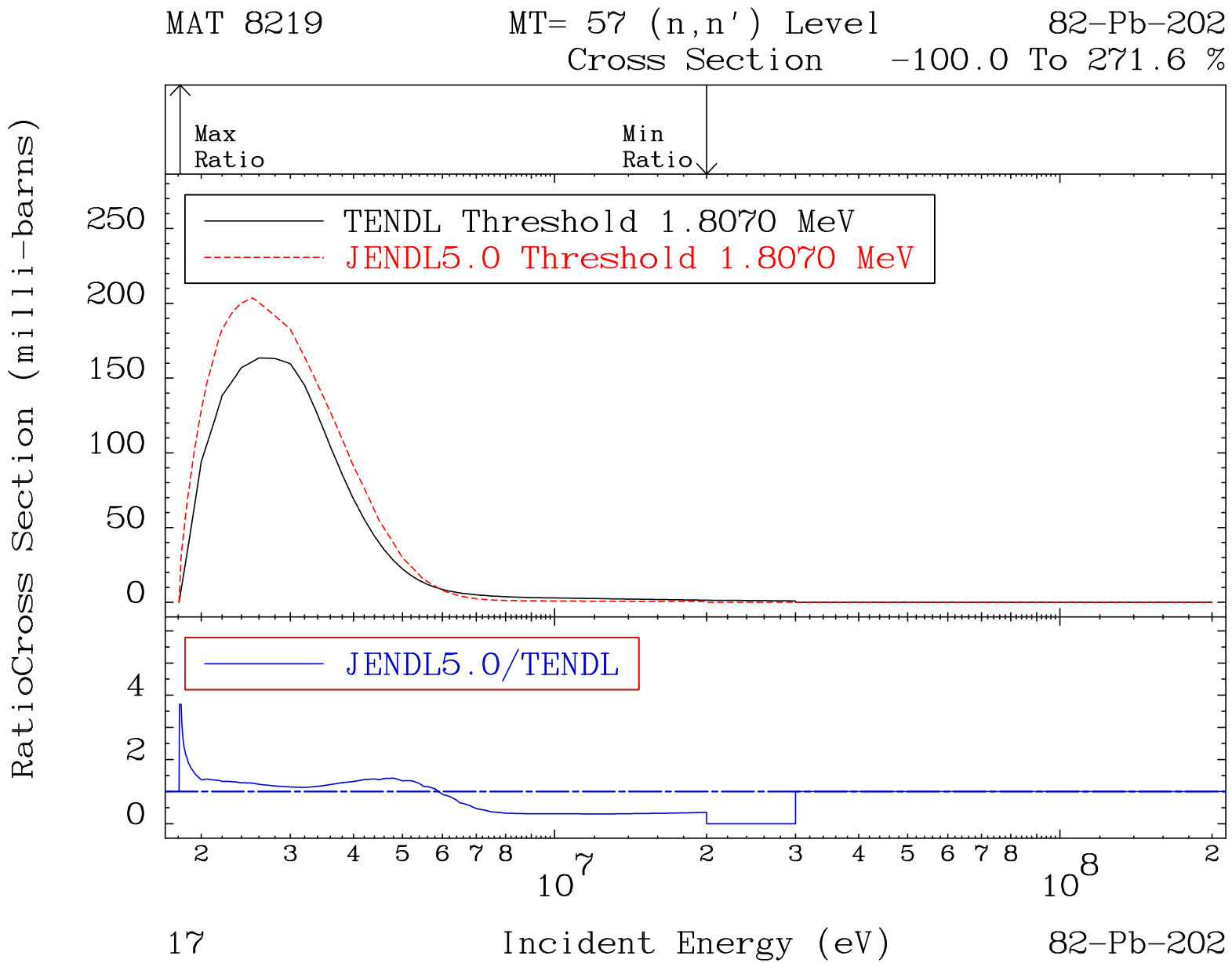

MAT 8219
MT= 52 (n,n') Level
82-Pb-202
Cross Section
-100.0 To 45.02 %
Max Ratio
Min Ratio
TENDL Threshold 1.3897 MeV
JENDL5.0 Threshold 1.3897 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
12
Incident Energy (eV)
82-Pb-202

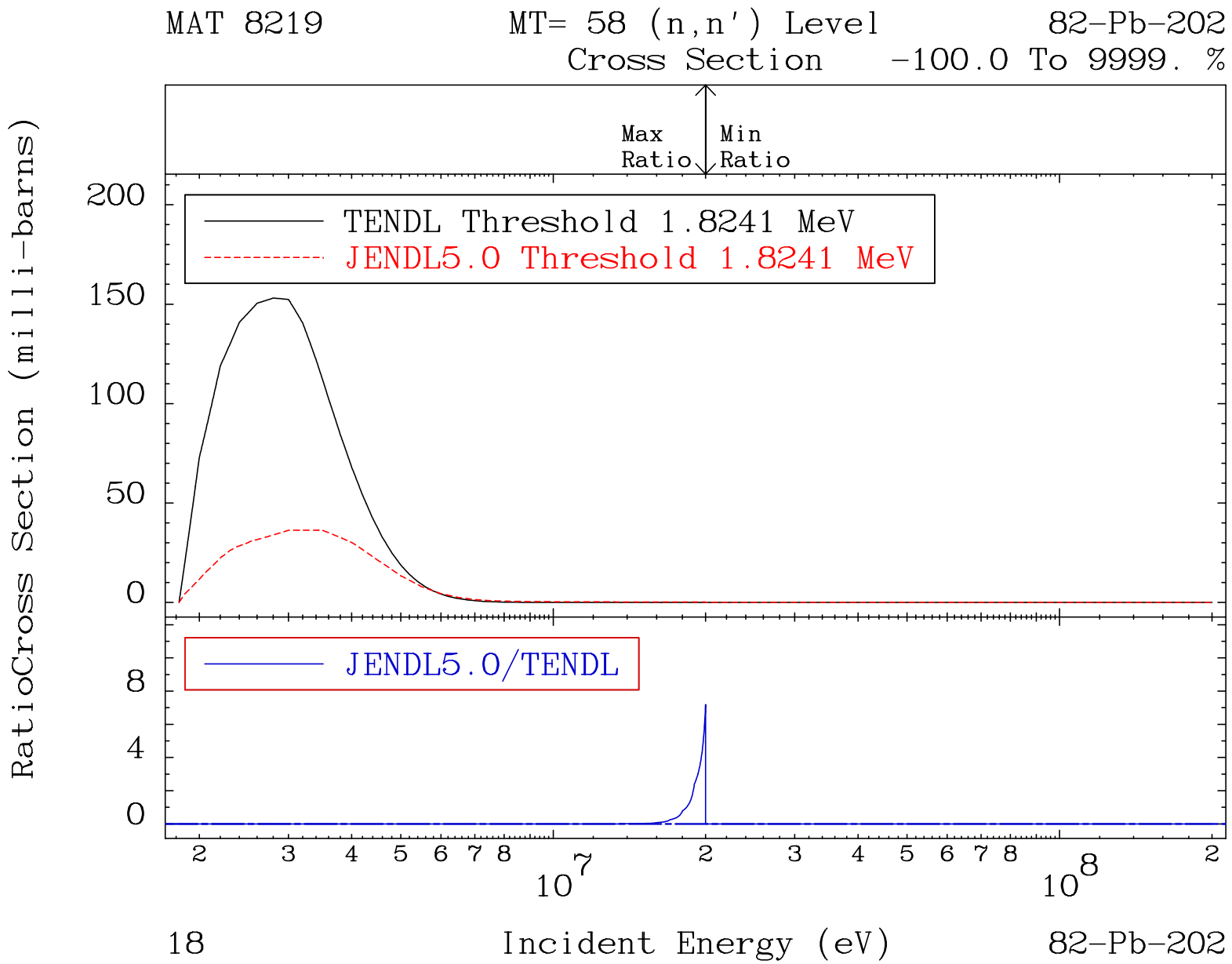

MAT 8219
MT= 53 (n,n') Level
82-Pb-202
Cross Section -100.0 To 86.07 %
Max Ratio
Min Ratio
TENDL Threshold 1.5919 MeV
JENDL5.0 Threshold 1.5919 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
82-Pb-202

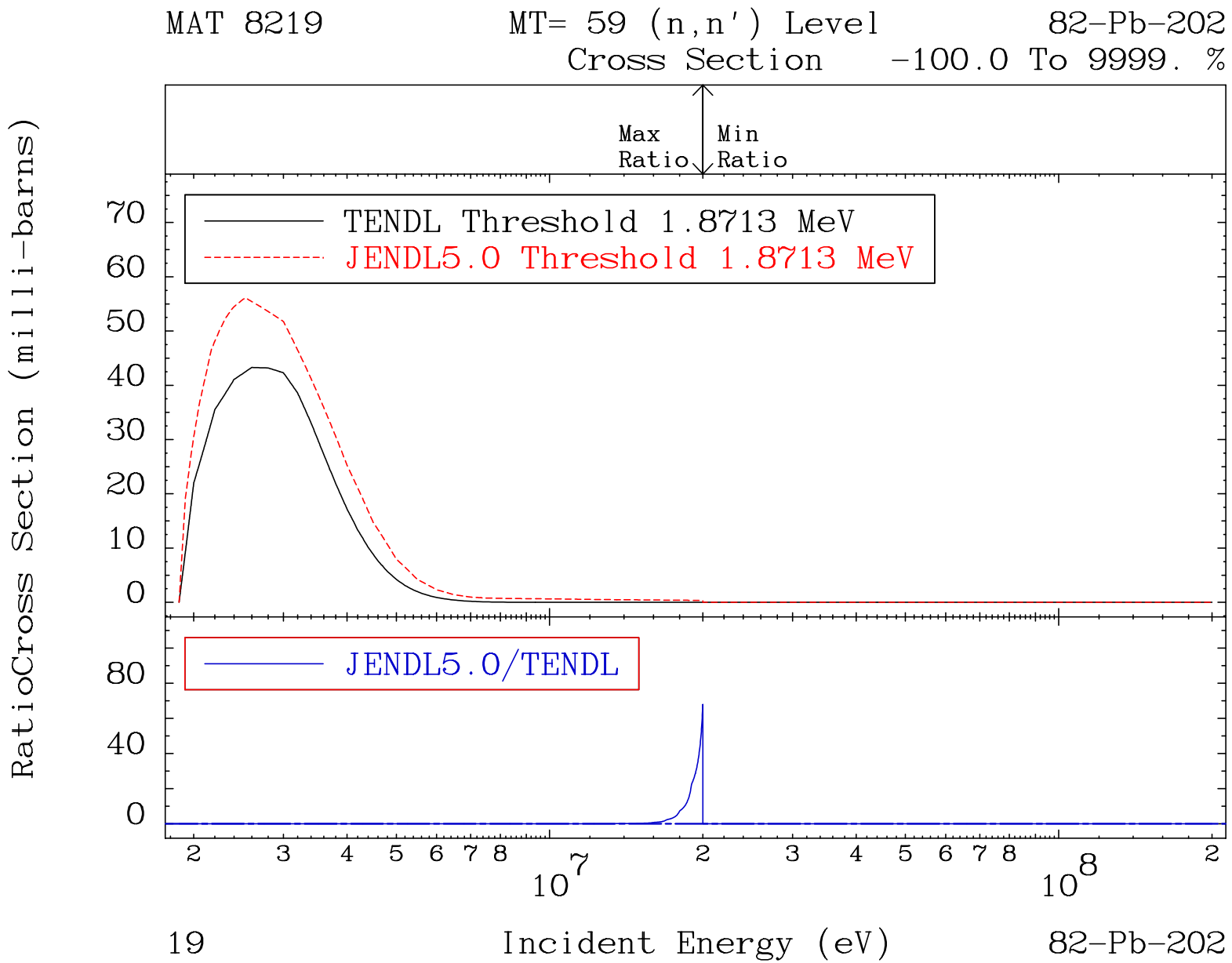

MAT 8219
MT= 54 (n,n') Level
82-Pb-202
Cross Section -100.0 To 77.89 %
Max Ratio
Min Ratio
TENDL Threshold 1.6311 MeV
JENDL5.0 Threshold 1.6311 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
82-Pb-202

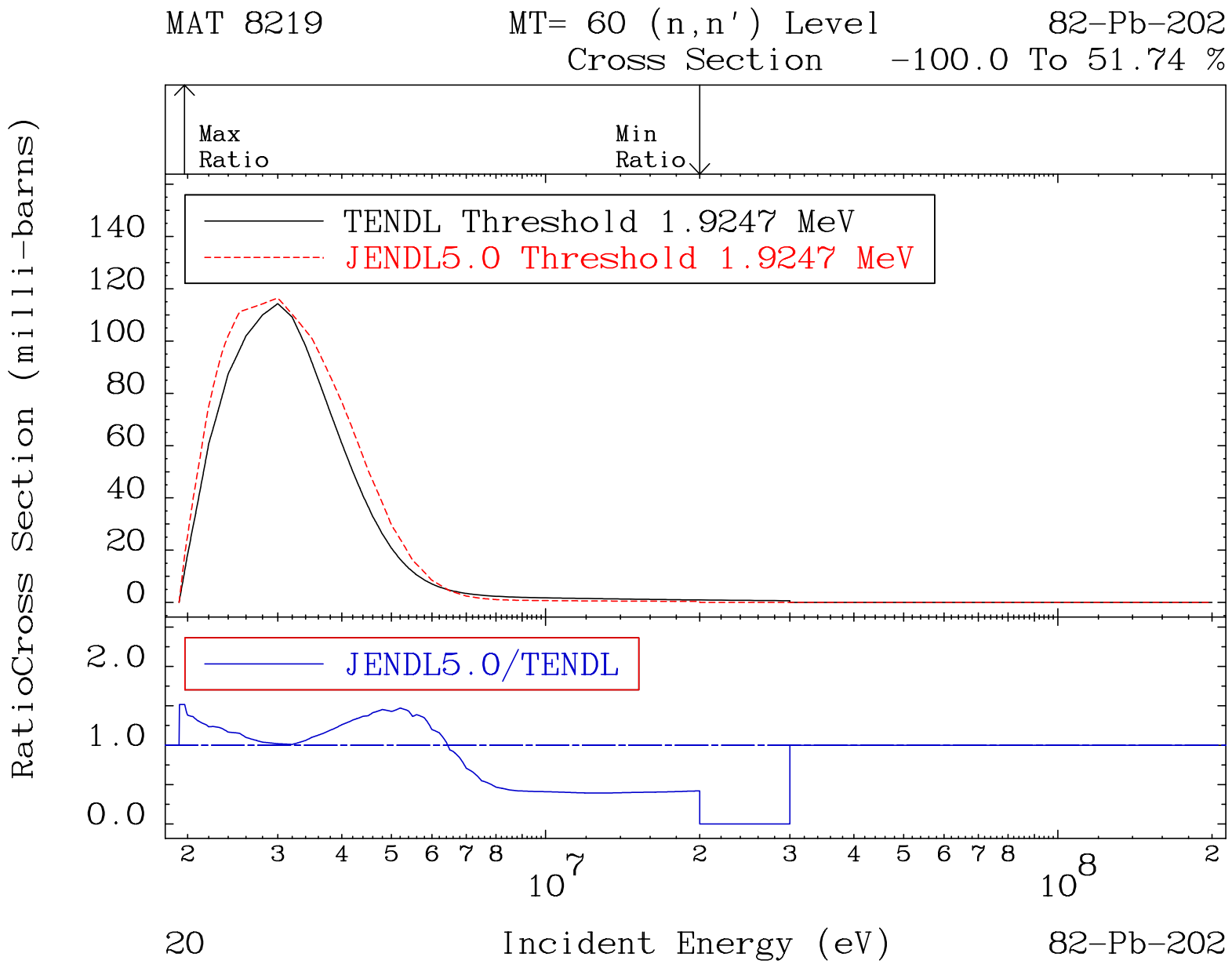

MAT 8219
MT= 55 (n,n') Level
82-Pb-202
Cross Section -100.0 To 1430. %
Max Ratio
Min Ratio
TENDL Threshold 1.6653 MeV
JENDL5.0 Threshold 1.6653 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
20
10
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
82-Pb-202

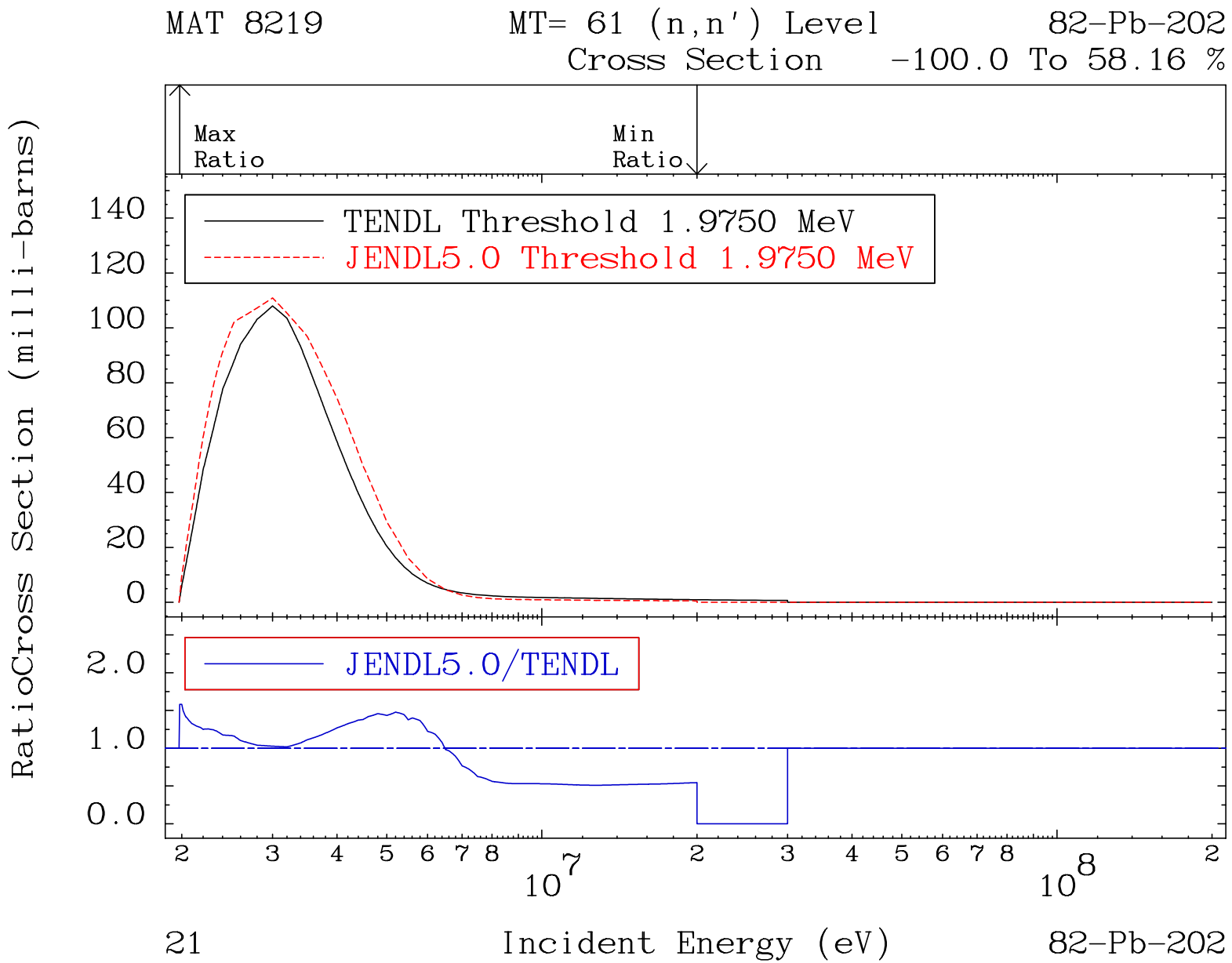

MAT 8219
MT= 56 (n,n') Level
82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6663 MeV
JENDL5.0 Threshold 1.6663 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
80
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
82-Pb-202

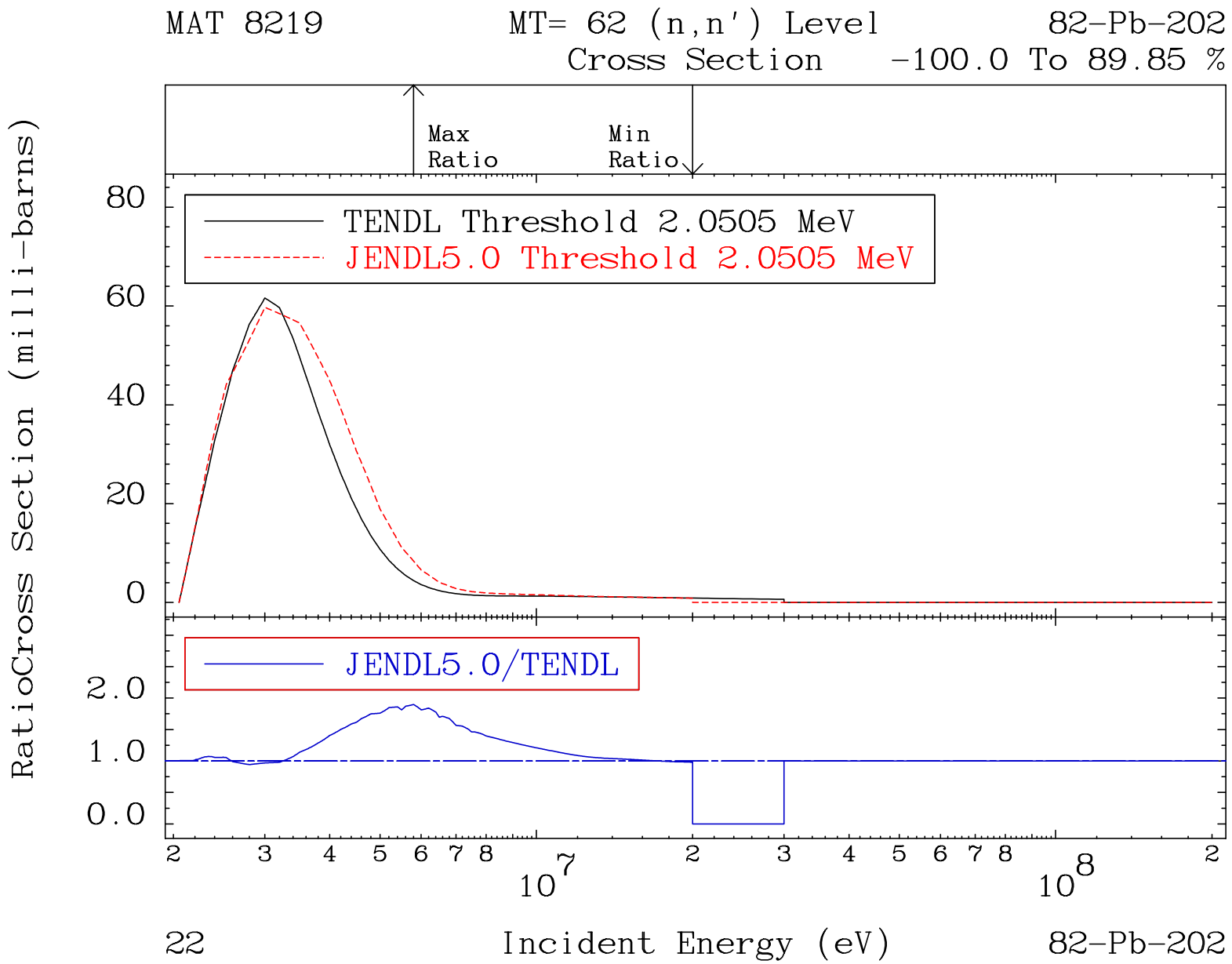

MAT 8219
MT= 57 (n,n') Level
82-Pb-202
Cross Section -100.0 To 271.6 %
Max Ratio
Min Ratio
TENDL Threshold 1.8070 MeV
JENDL5.0 Threshold 1.8070 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
82-Pb-202

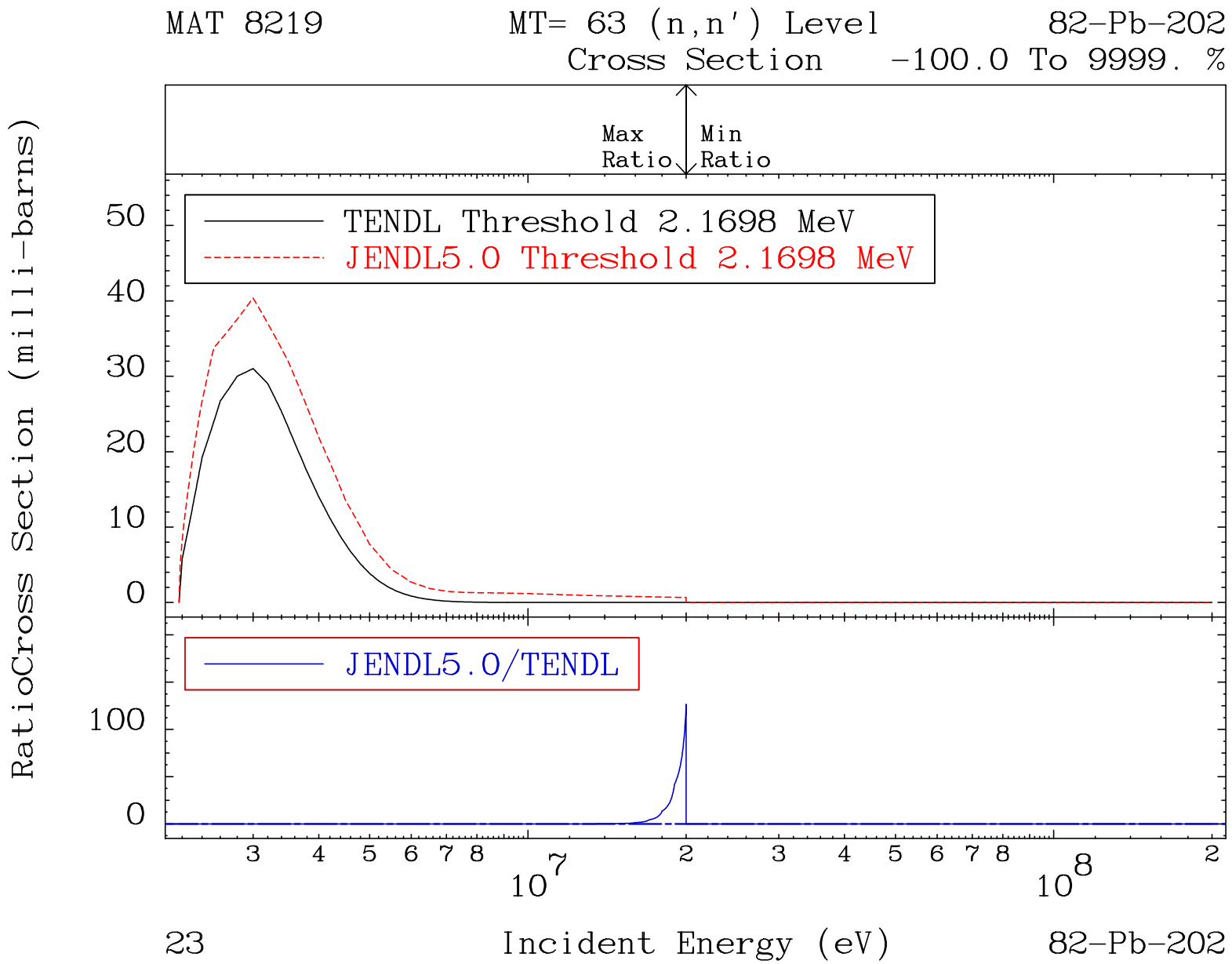

MAT 8219
MT= 58 (n,n') Level
82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.8241 MeV
JENDL5.0 Threshold 1.8241 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
82-Pb-202

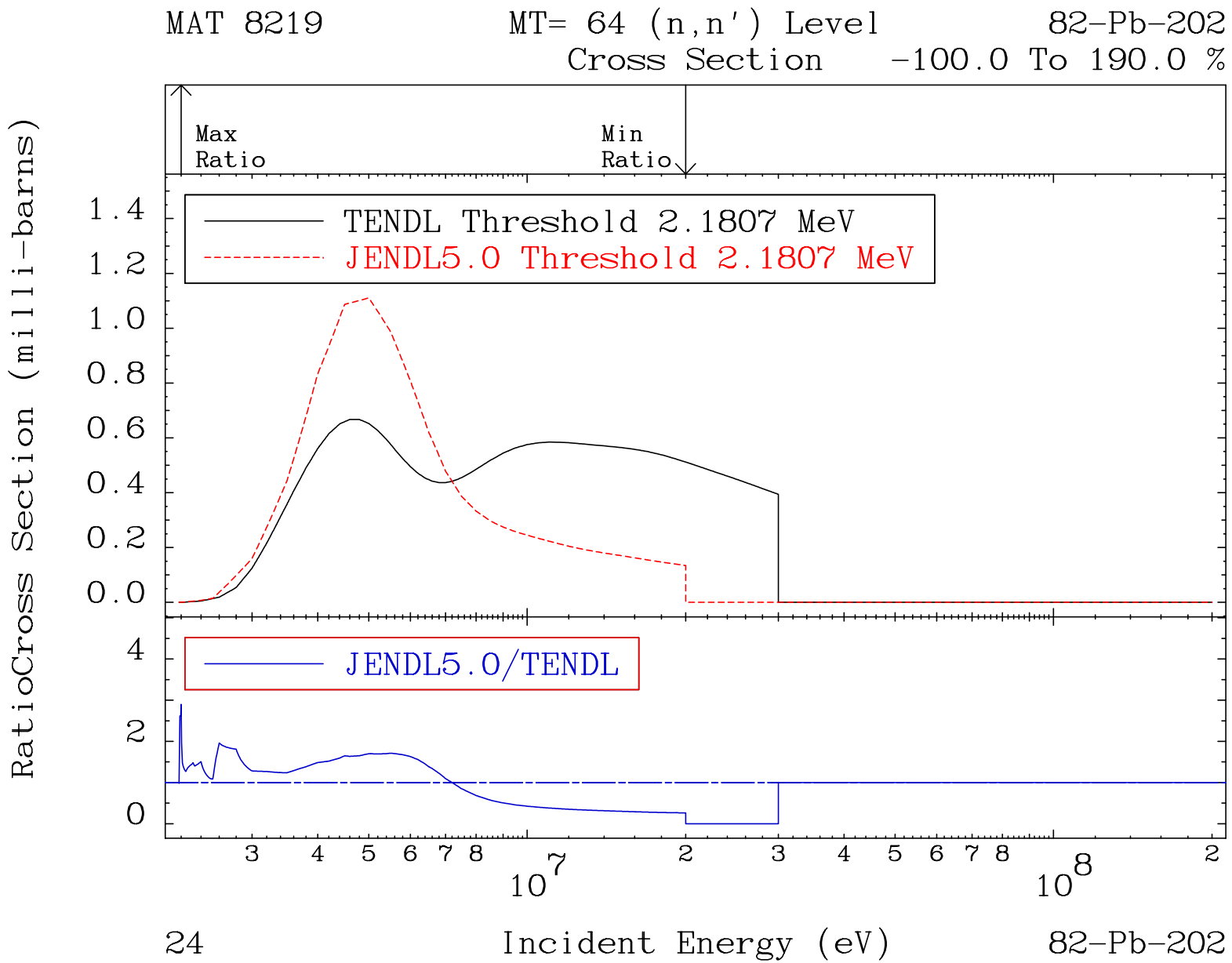

MAT 8219
MT= 59 (n,n') Level
82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.8713 MeV
JENDL5.0 Threshold 1.8713 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
80
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
82-Pb-202

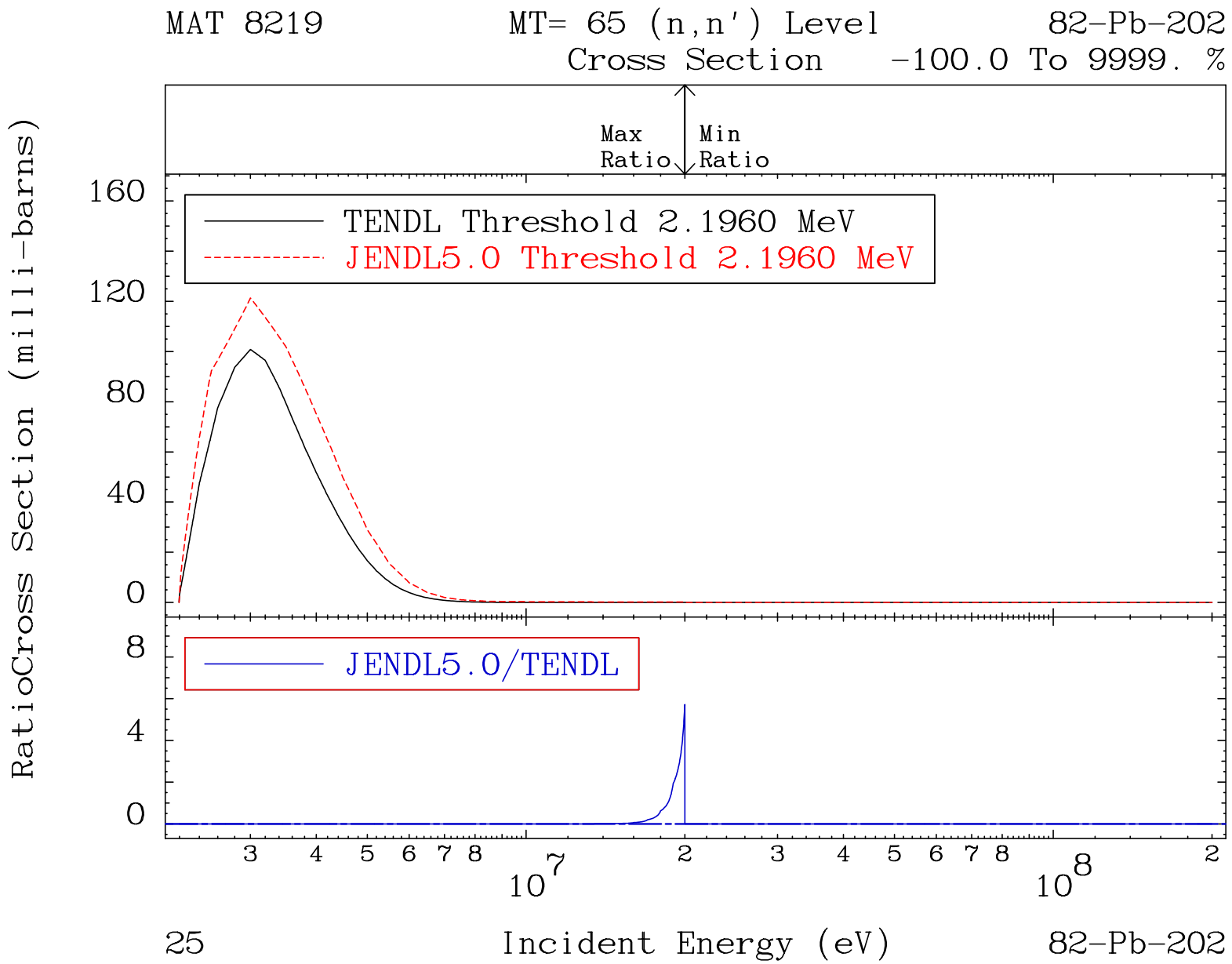

MAT 8219
MT= 60 (n,n') Level
82-Pb-202
Cross Section -100.0 To 51.74 %
Max Ratio
Min Ratio
TENDL Threshold 1.9247 MeV
JENDL5.0 Threshold 1.9247 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
82-Pb-202

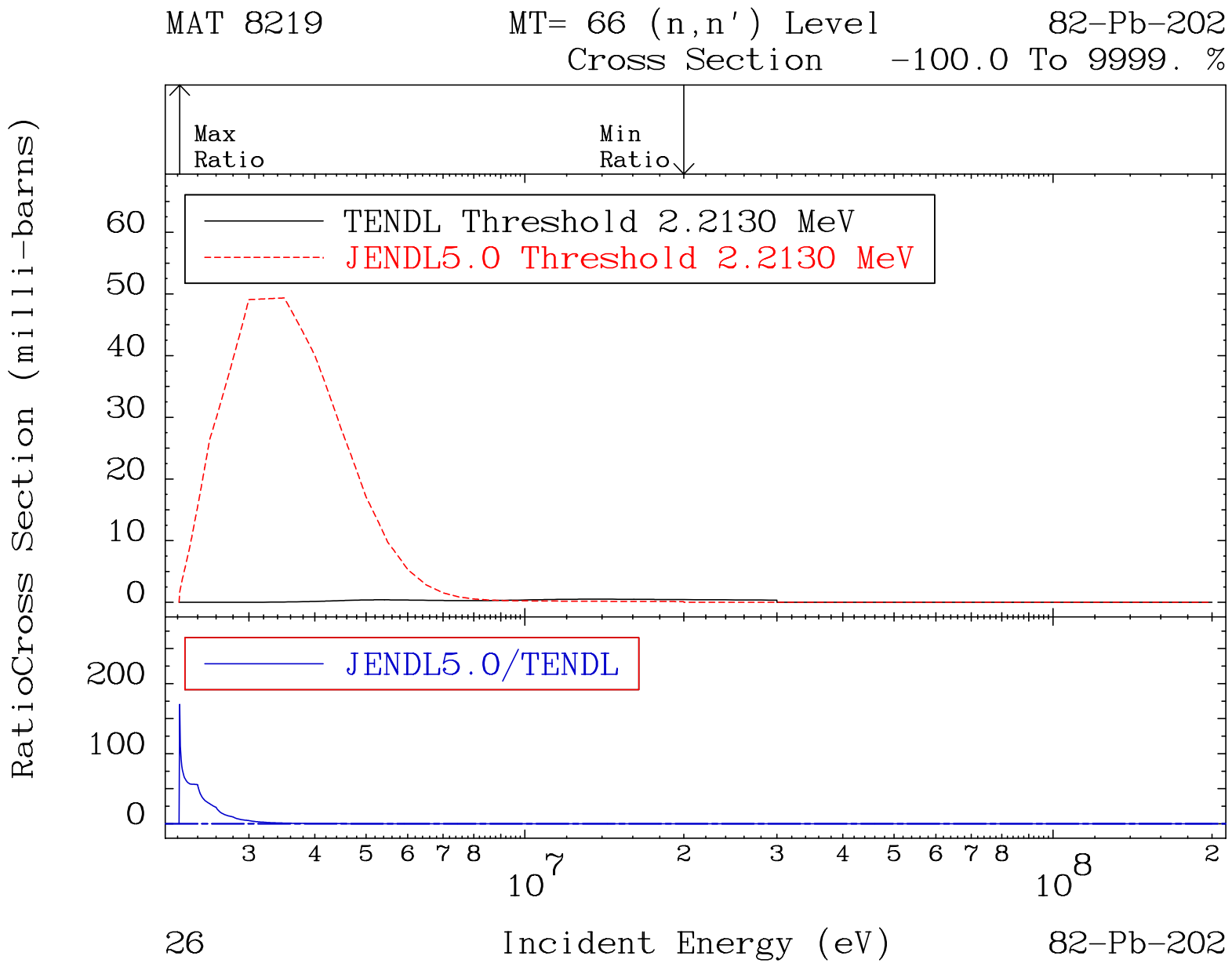

MAT 8219
MT= 61 (n,n') Level
82-Pb-202
Cross Section -100.0 To 58.16 %
Max Ratio
Min Ratio
TENDL Threshold 1.9750 MeV
JENDL5.0 Threshold 1.9750 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
82-Pb-202

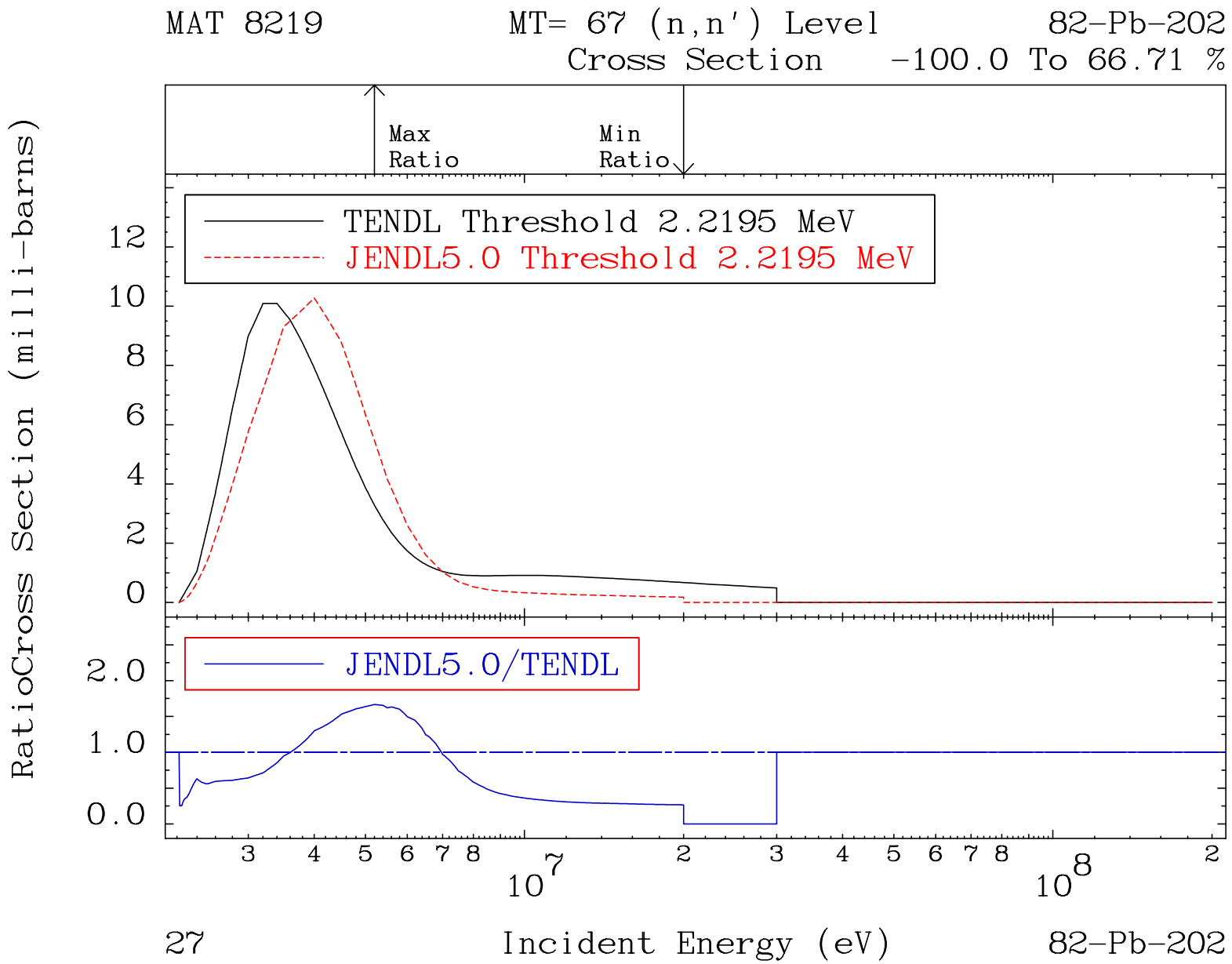

MAT 8219
MT= 62 (n,n') Level
82-Pb-202
Cross Section -100.0 To 89.85 %
Max Ratio
Min Ratio
TENDL Threshold 2.0505 MeV
JENDL5.0 Threshold 2.0505 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
82-Pb-202

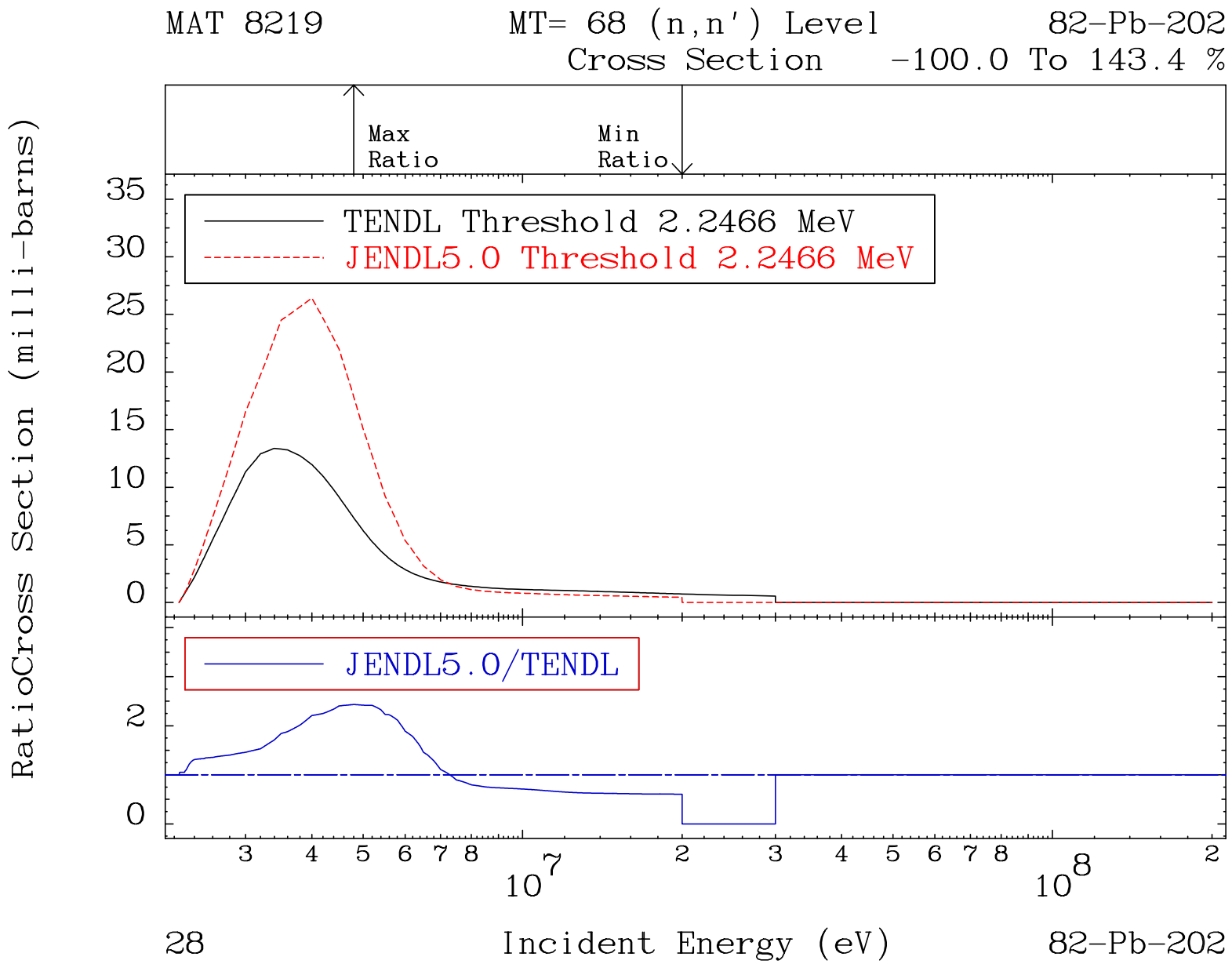

MAT 8219
MT= 63 (n,n') Level
82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.1698 MeV
JENDL5.0 Threshold 2.1698 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
100
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
82-Pb-202

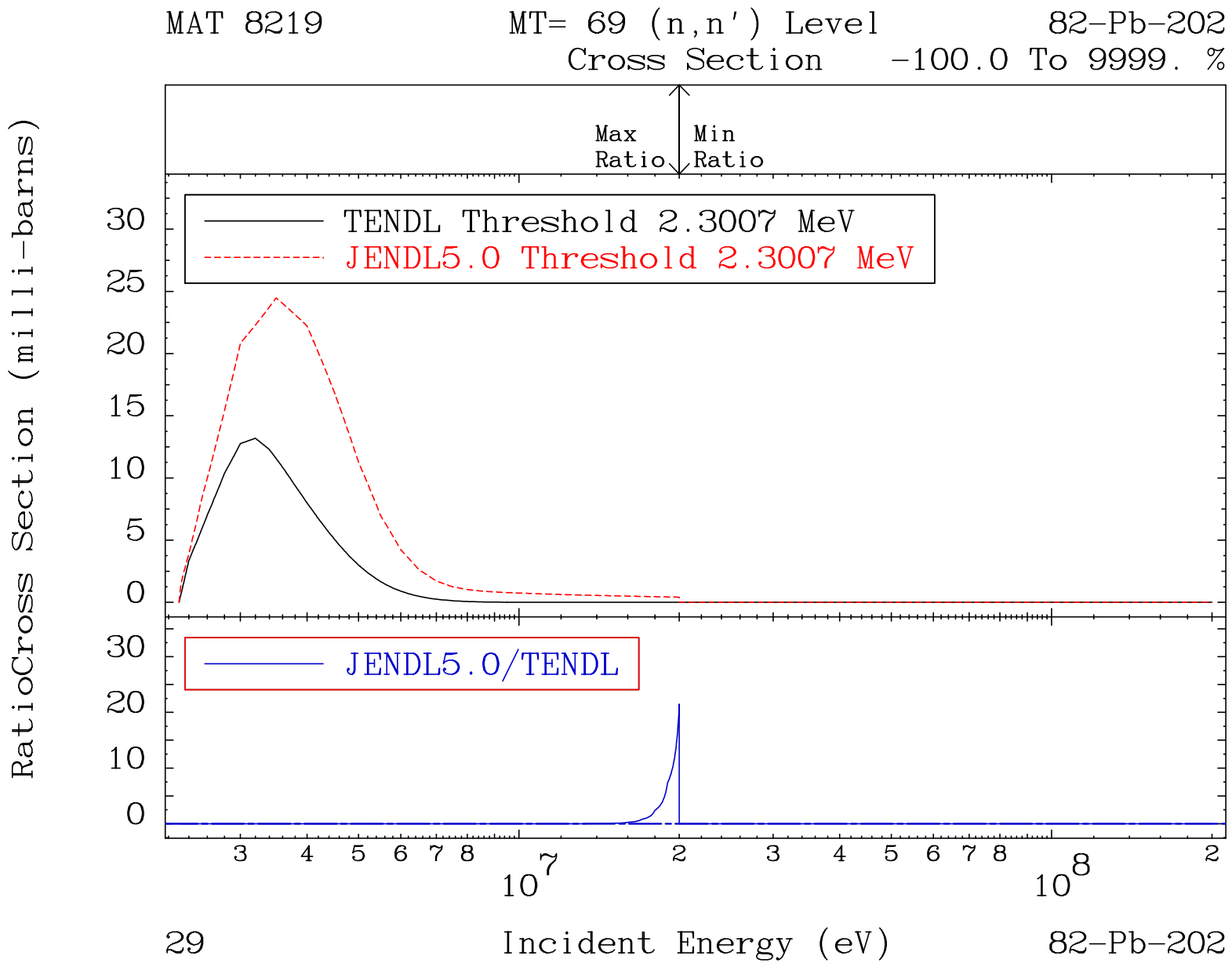

MAT 8219
MT= 64 (n,n') Level
82-Pb-202
Cross Section -100.0 To 190.0 %
Max Ratio
Min Ratio
TENDL Threshold 2.1807 MeV
JENDL5.0 Threshold 2.1807 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
24
82-Pb-202

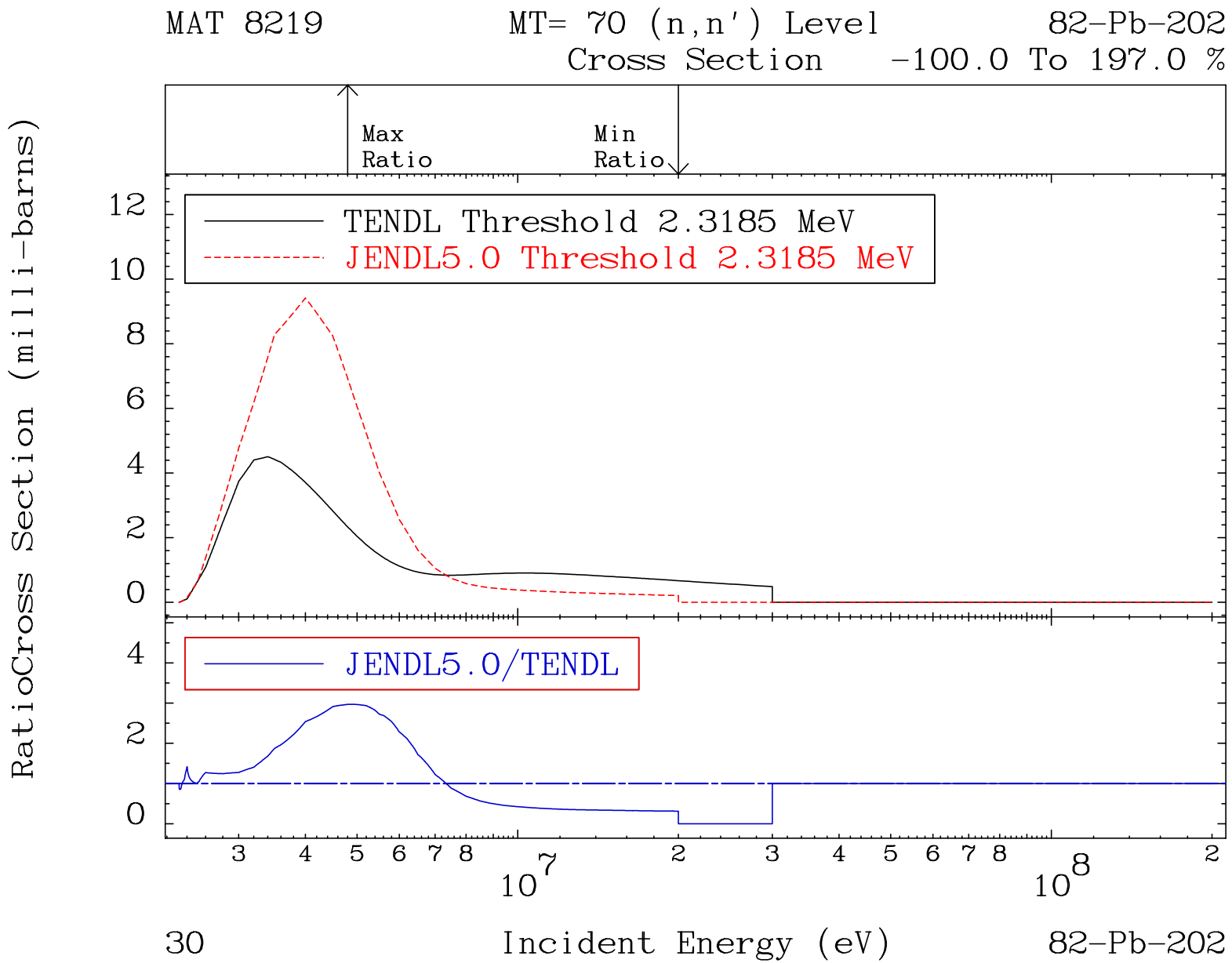

MAT 8219
MT= 65 (n,n') Level
82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.1960 MeV
JENDL5.0 Threshold 2.1960 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
8
4
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
82-Pb-202

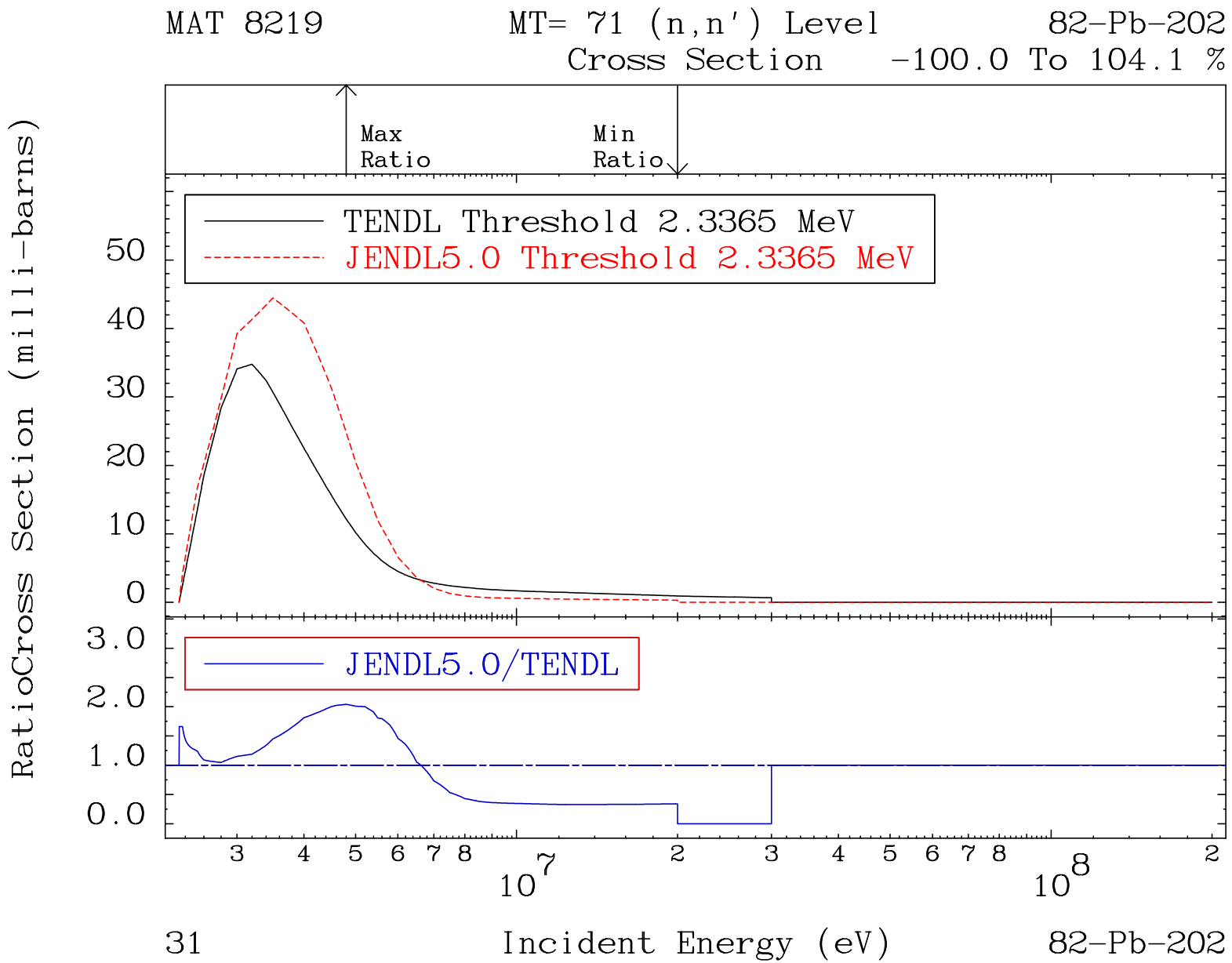

MAT 8219
MT= 66 (n,n') Level
82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2130 MeV
JENDL5.0 Threshold 2.2130 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
200
100
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
26
82-Pb-202

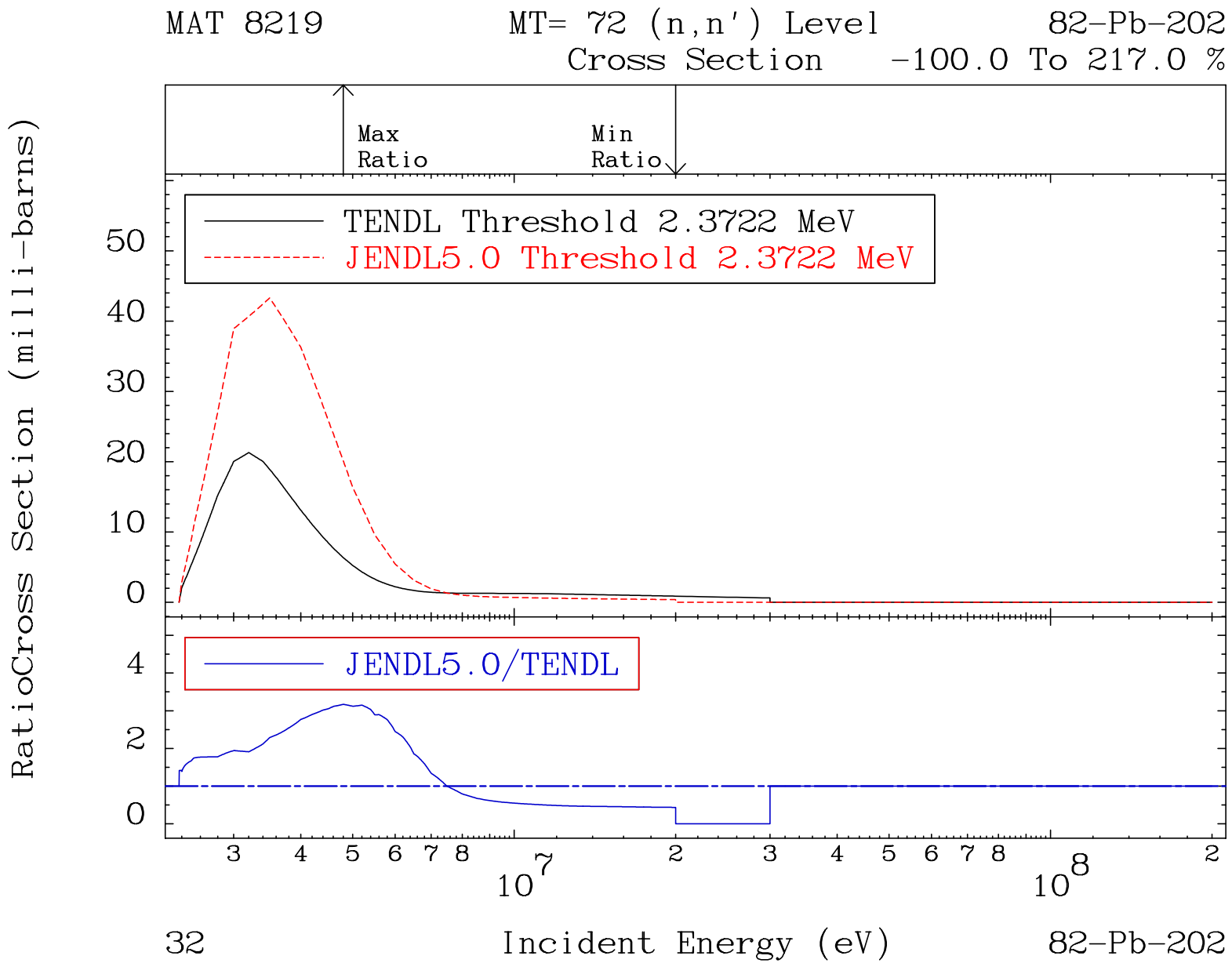

MAT 8219
MT= 67 (n,n') Level
82-Pb-202
Cross Section
-100.0 To 66.71 %
Max Ratio
Min Ratio
TENDL Threshold 2.2195 MeV
JENDL5.0 Threshold 2.2195 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
27
82-Pb-202

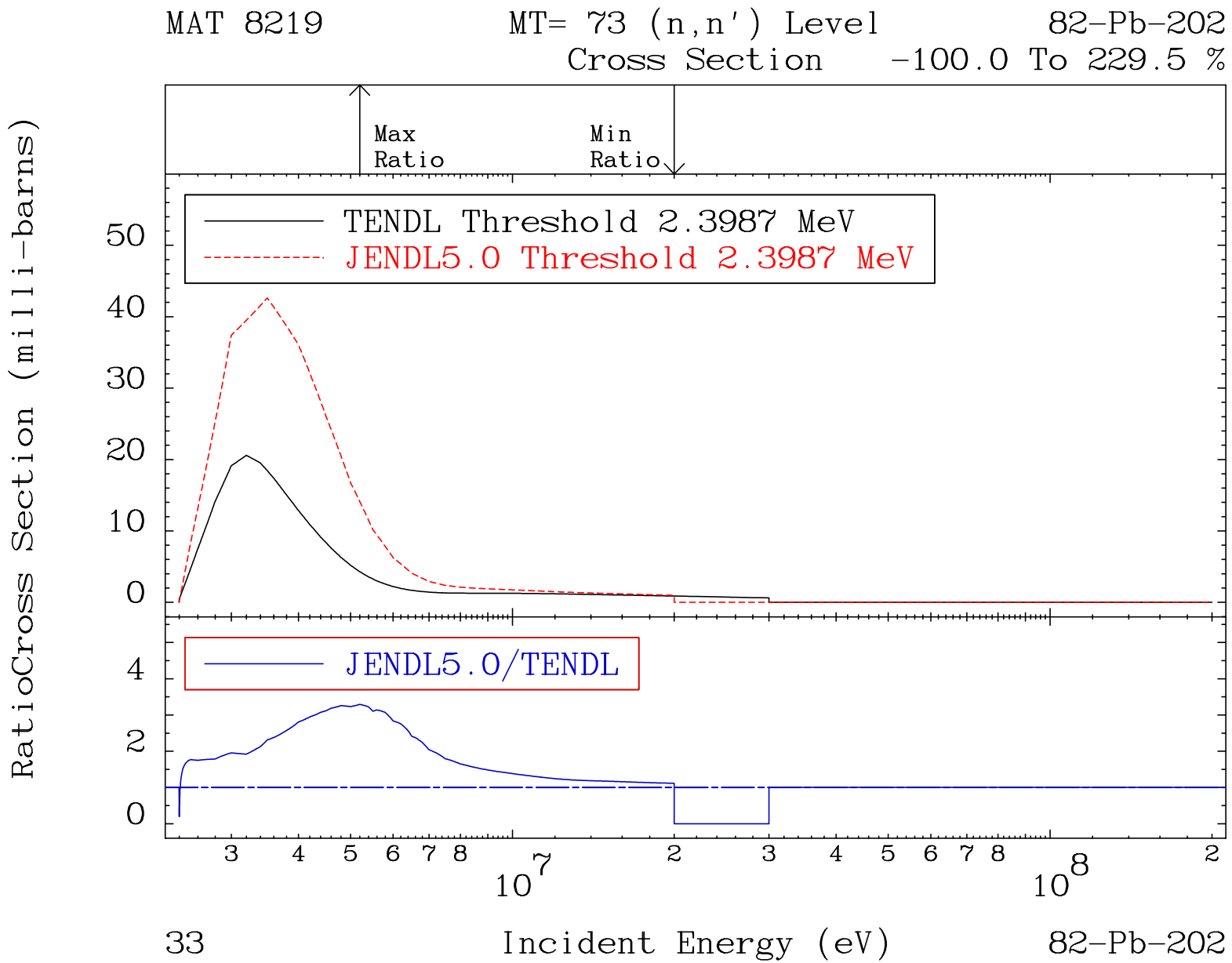

MAT 8219
MT= 68 (n,n') Level
82-Pb-202
Cross Section
-100.0 To 143.4 %
Max Ratio
Min Ratio
TENDL Threshold 2.2466 MeV
JENDL5.0 Threshold 2.2466 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
82-Pb-202

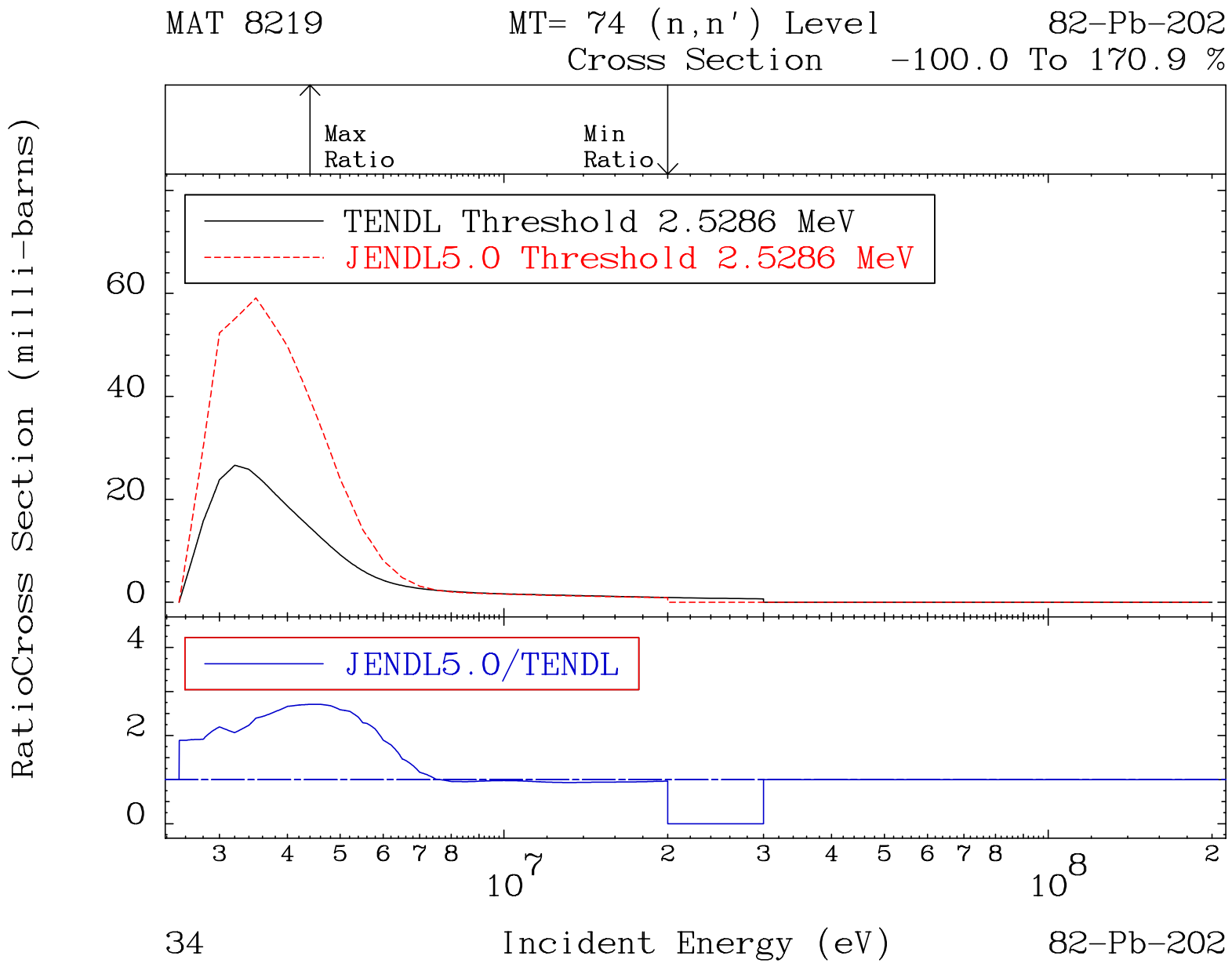

MAT 8219
MT= 69 (n,n') Level
82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.3007 MeV
JENDL5.0 Threshold 2.3007 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
82-Pb-202

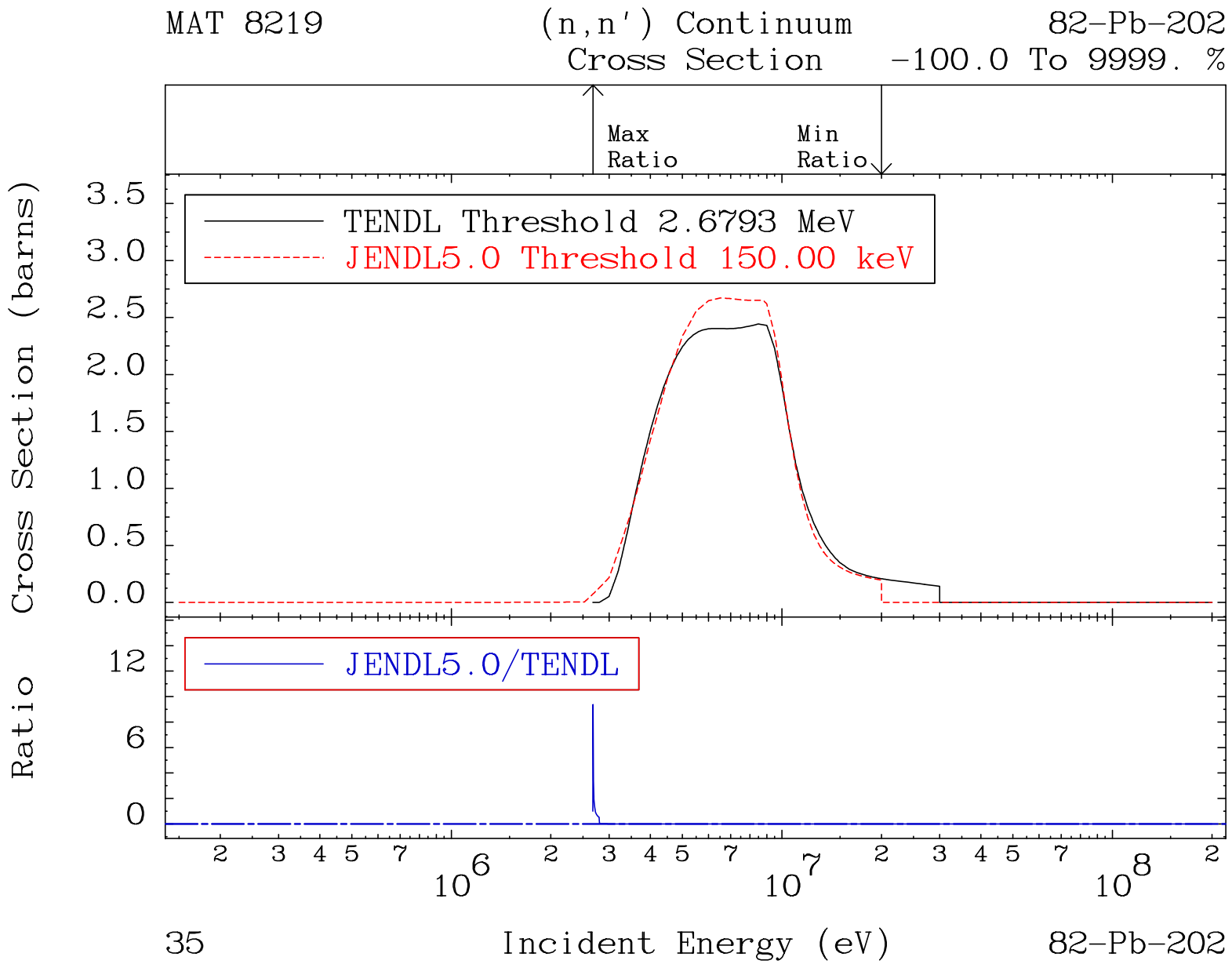

MAT 8219
MT= 70 (n,n') Level
82-Pb-202
Cross Section -100.0 To 197.0 %
Max Ratio
Min Ratio
TENDL Threshold 2.3185 MeV
JENDL5.0 Threshold 2.3185 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
30
82-Pb-202

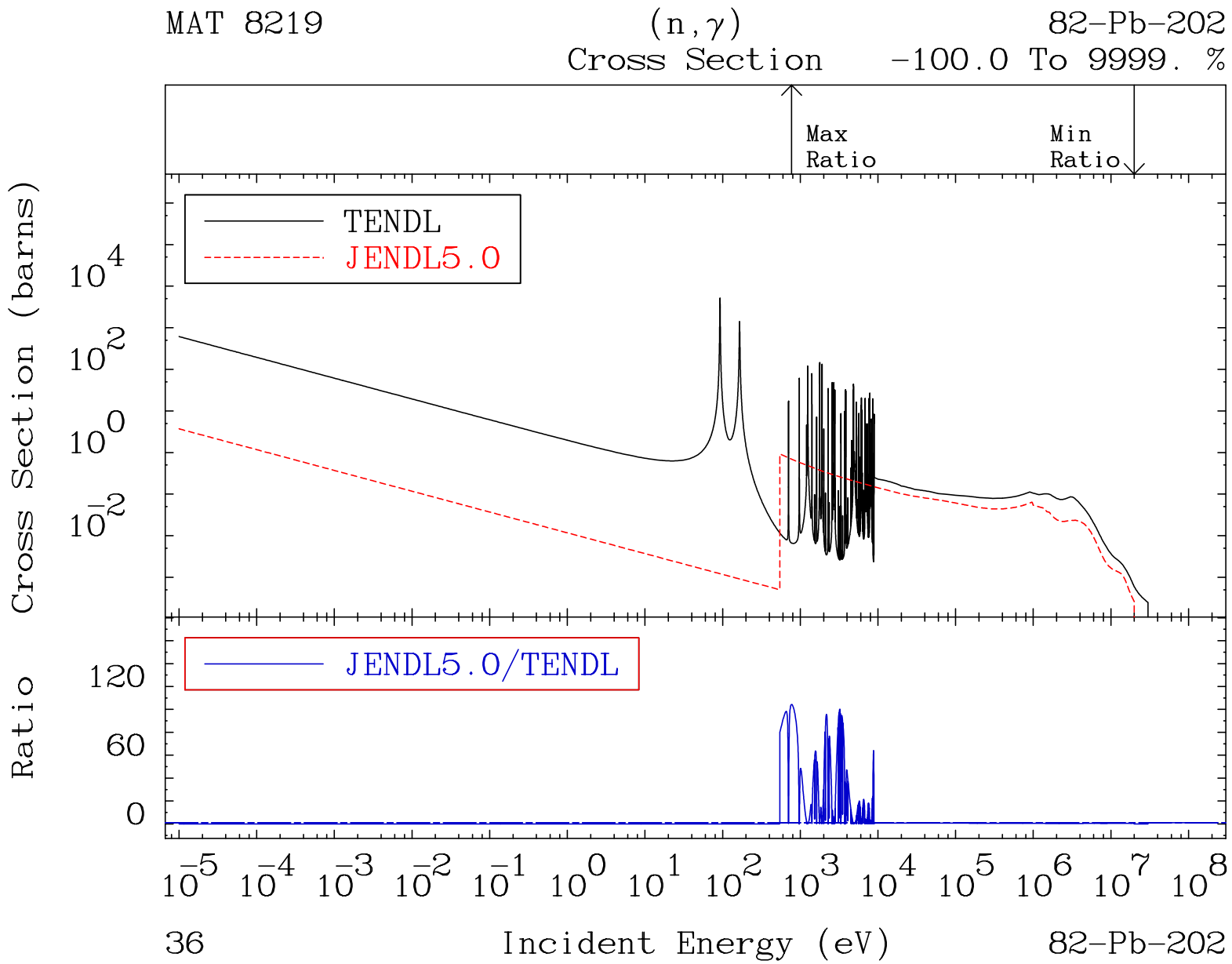

MAT 8219
MT= 71 (n,n') Level
82-Pb-202
Cross Section -100.0 To 104.1 %
Max Ratio
Min Ratio
TENDL Threshold 2.3365 MeV
JENDL5.0 Threshold 2.3365 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
82-Pb-202

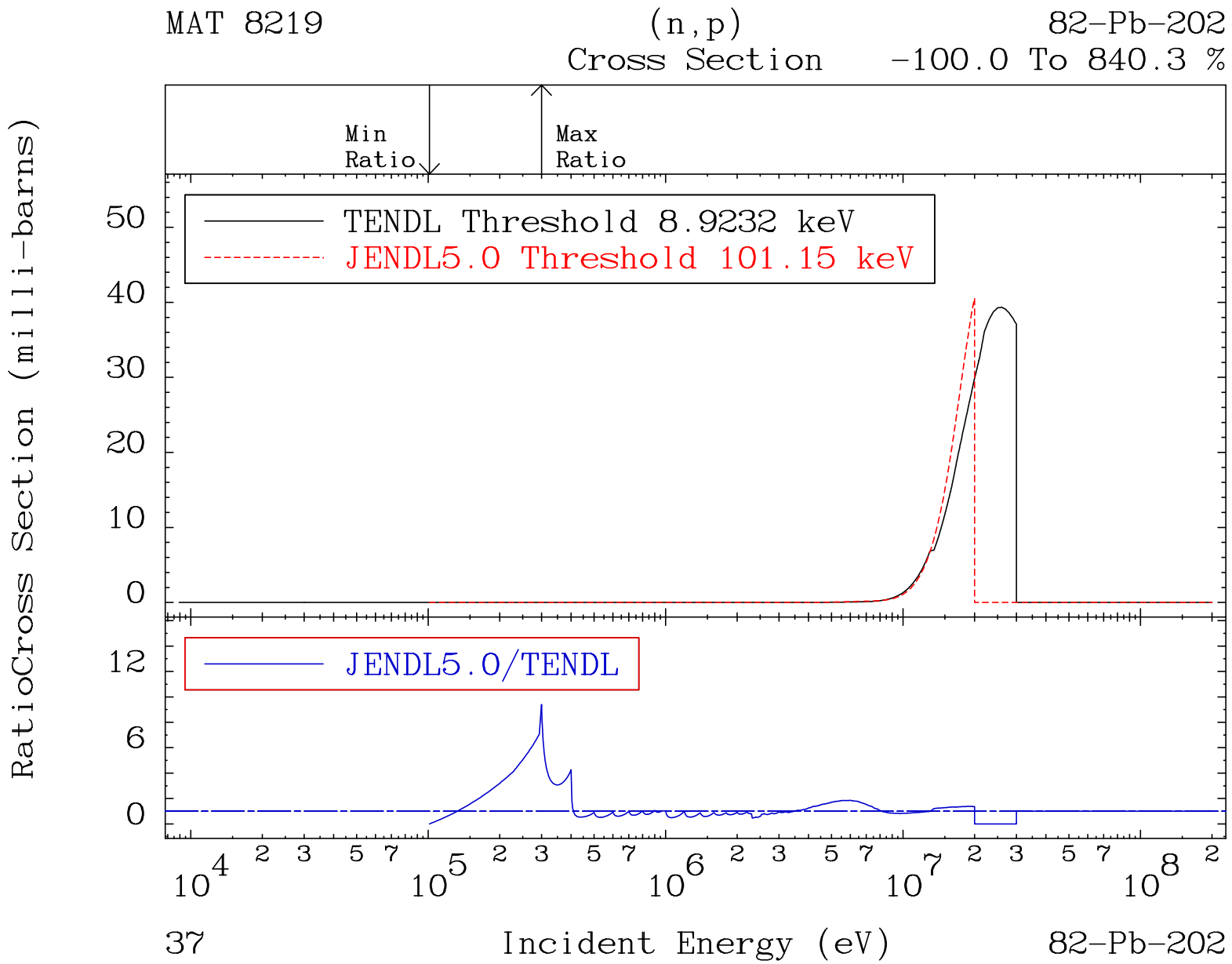

MAT 8219
MT= 72 (n,n') Level
82-Pb-202
Cross Section -100.0 To 217.0 %
Max Ratio
Min Ratio
TENDL Threshold 2.3722 MeV
JENDL5.0 Threshold 2.3722 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
82-Pb-202

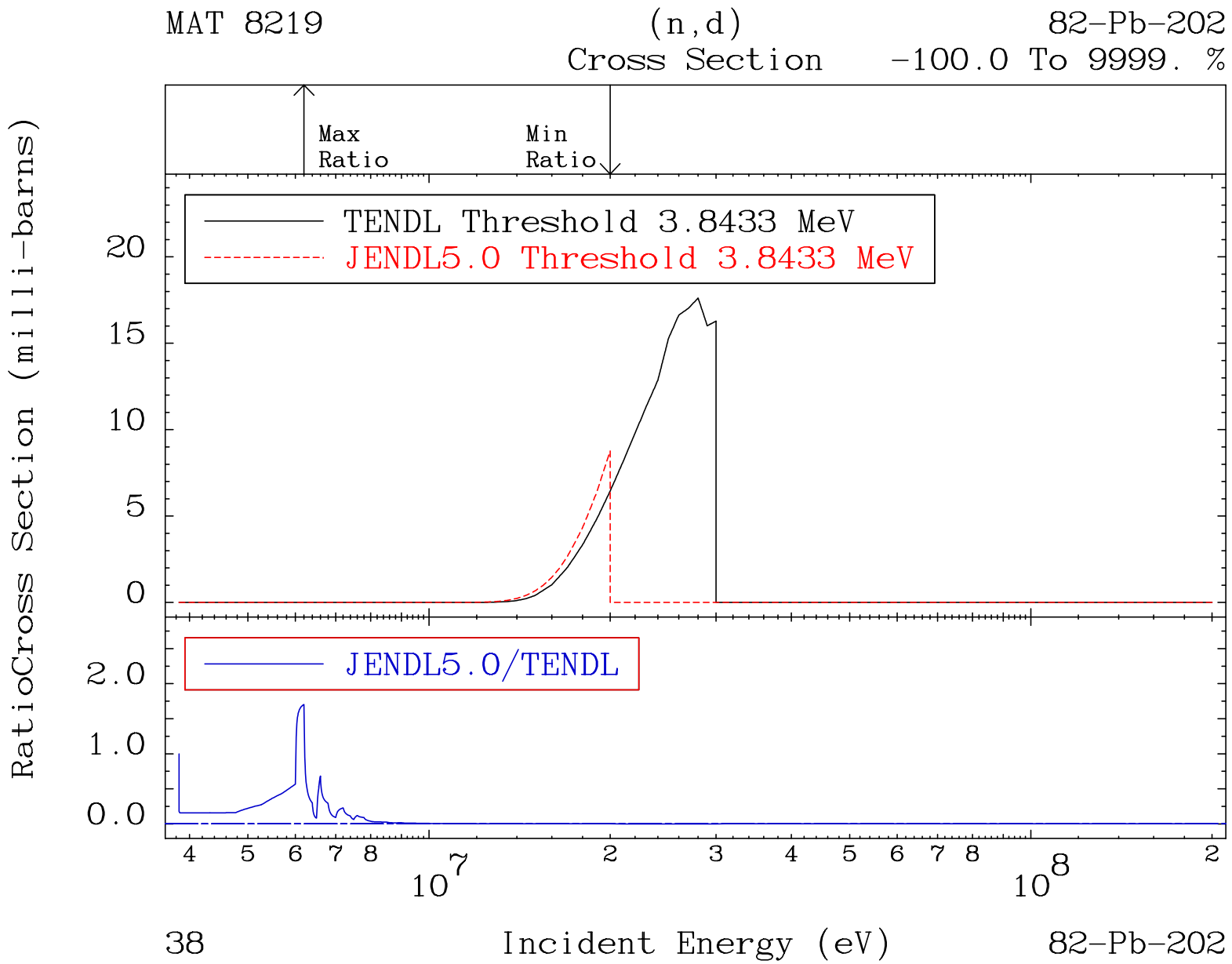

MAT 8219
MT= 73 (n,n') Level
82-Pb-202
Cross Section -100.0 To 229.5 %
Max Ratio
Min Ratio
TENDL Threshold 2.3987 MeV
JENDL5.0 Threshold 2.3987 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
82-Pb-202

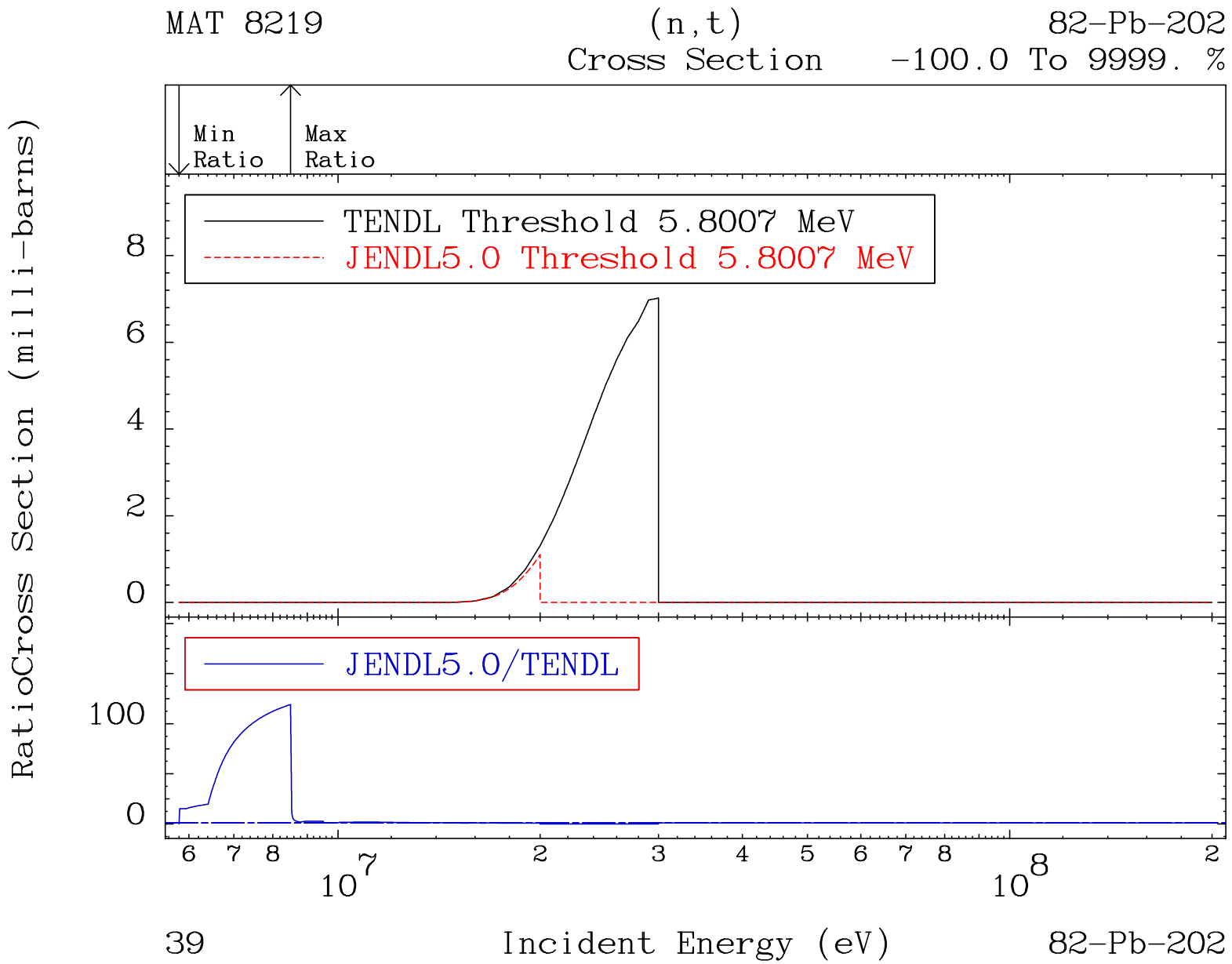

MAT 8219
MT= 74 (n,n') Level
82-Pb-202
Cross Section -100.0 To 170.9 %
Max Ratio
Min Ratio
TENDL Threshold 2.5286 MeV
JENDL5.0 Threshold 2.5286 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
82-Pb-202

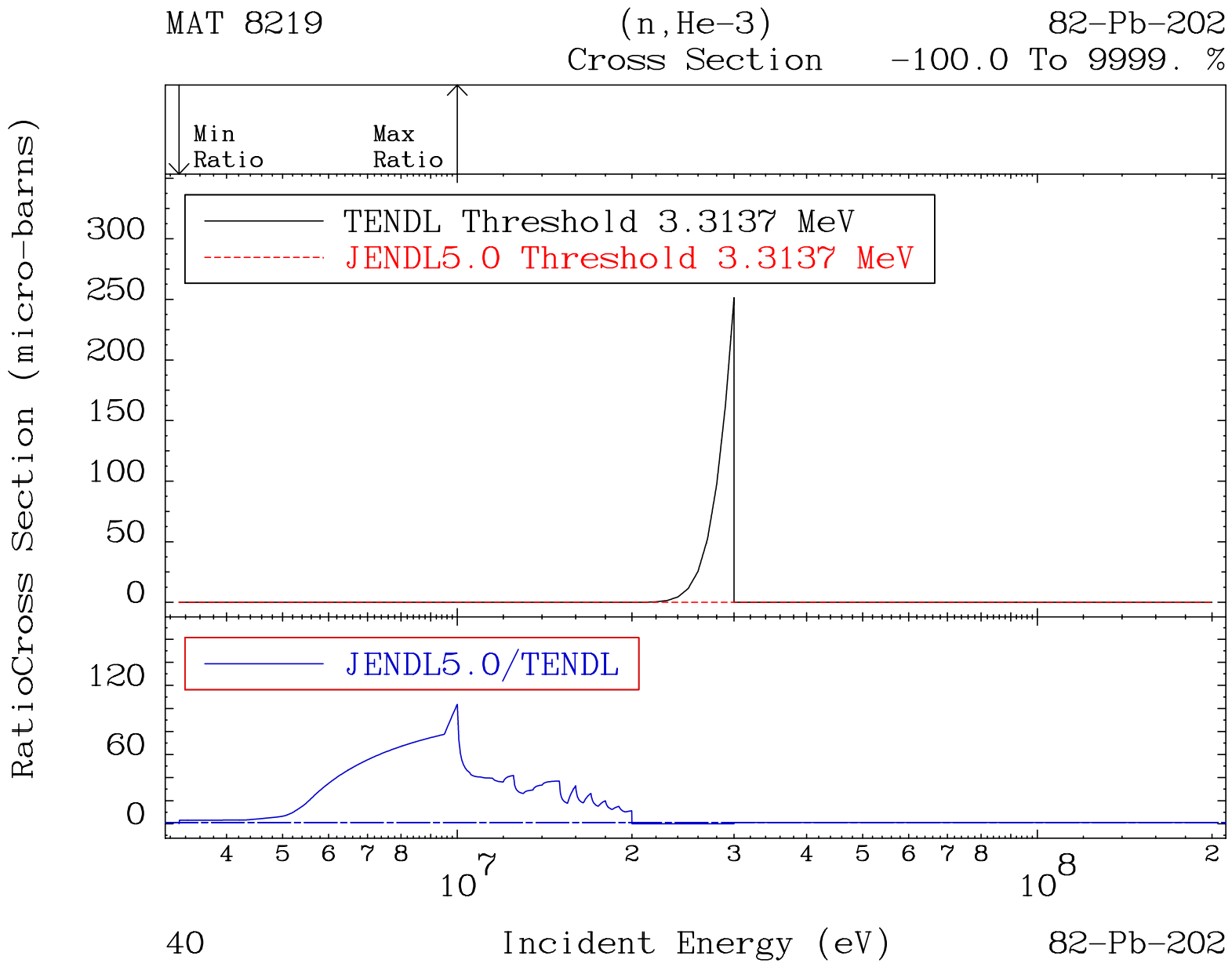

MAT 8219
(n,n') Continuum
Cross Section
82-Pb-202
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.6793 MeV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
12
6
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
35
Incident Energy (eV)
82-Pb-202

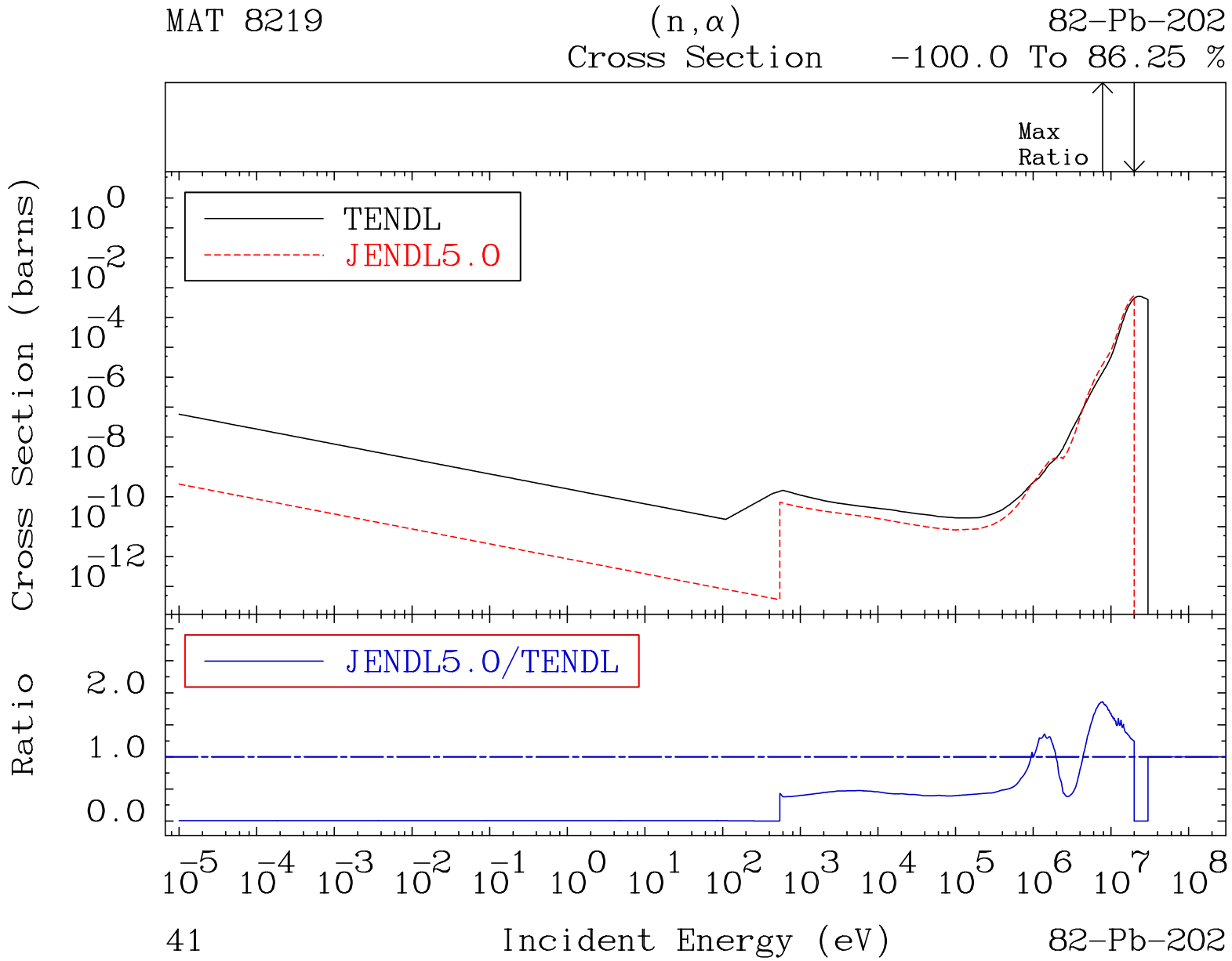

MAT 8219
(n,γ)
Cross Section
82-Pb-202
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
120
60
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
36
Incident Energy (eV)
82-Pb-202

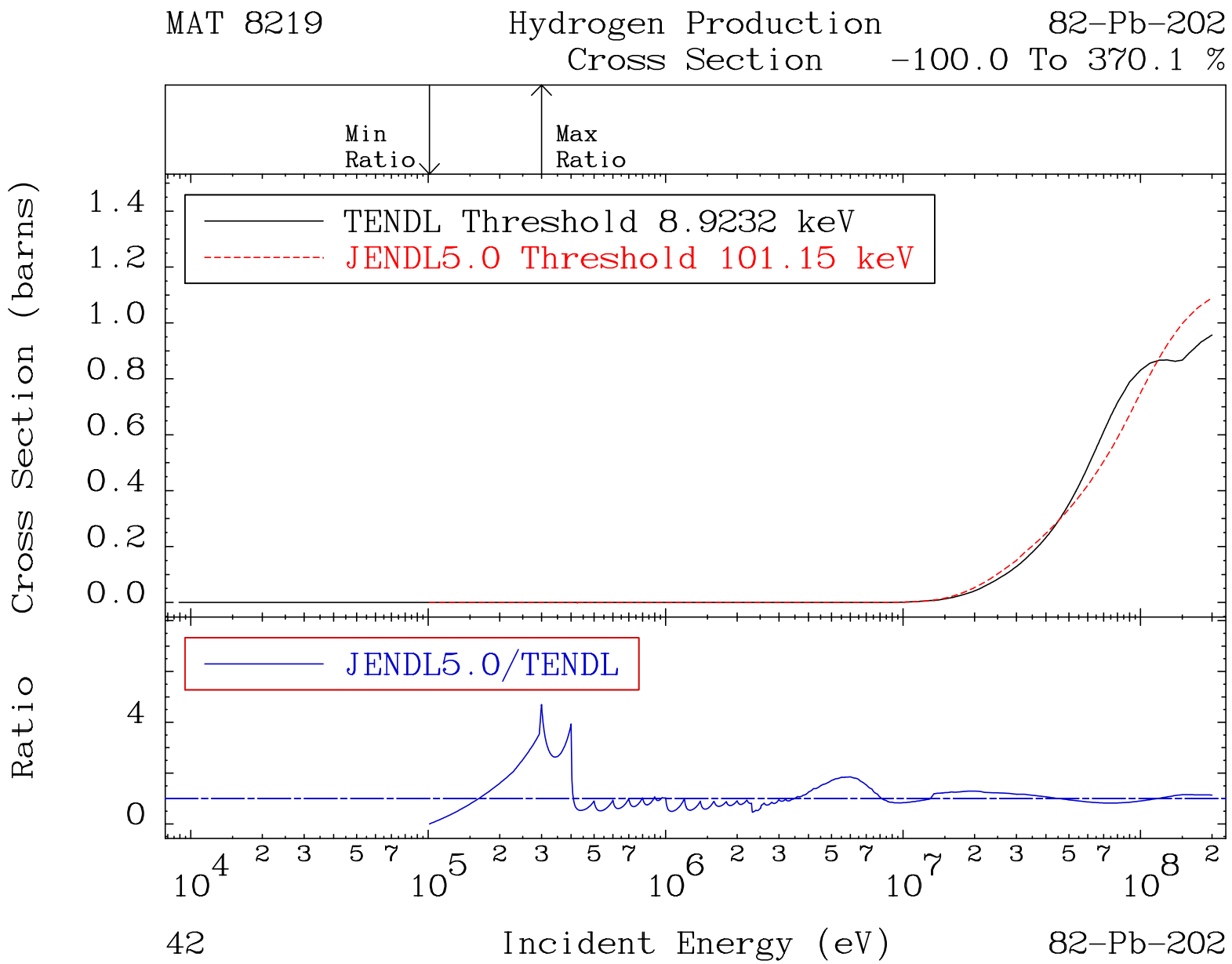

MAT 8219
(n,p)
Cross Section
82-Pb-202
-100.0 To 840.3 %
Min Ratio
Max Ratio
TENDL Threshold 8.9232 keV
JENDL5.0 Threshold 101.15 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
12
6
0
10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
37
Incident Energy (eV)
82-Pb-202

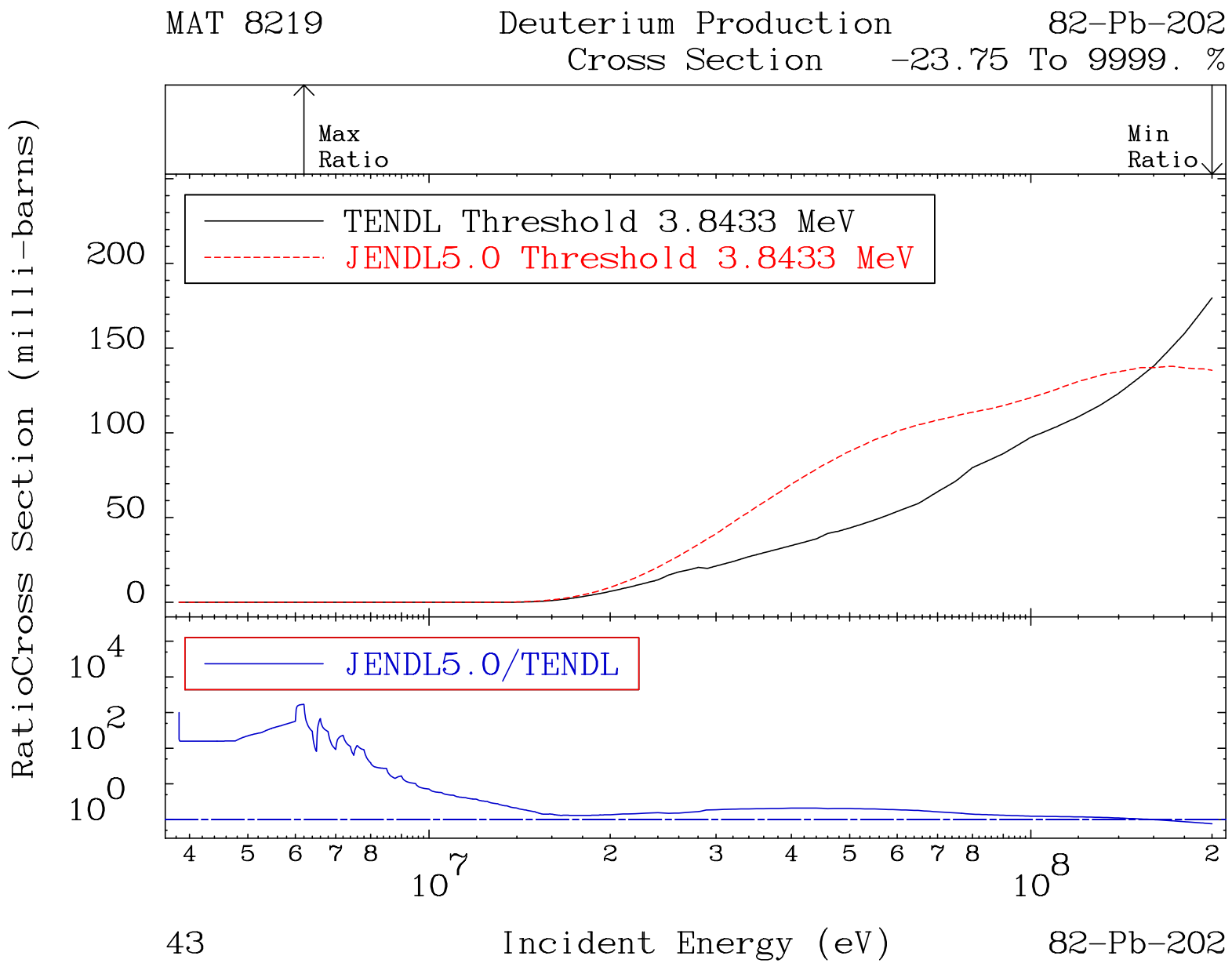

MAT 8219
(n,d)
82-Pb-202
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.8433 MeV
JENDL5.0 Threshold 3.8433 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
82-Pb-202

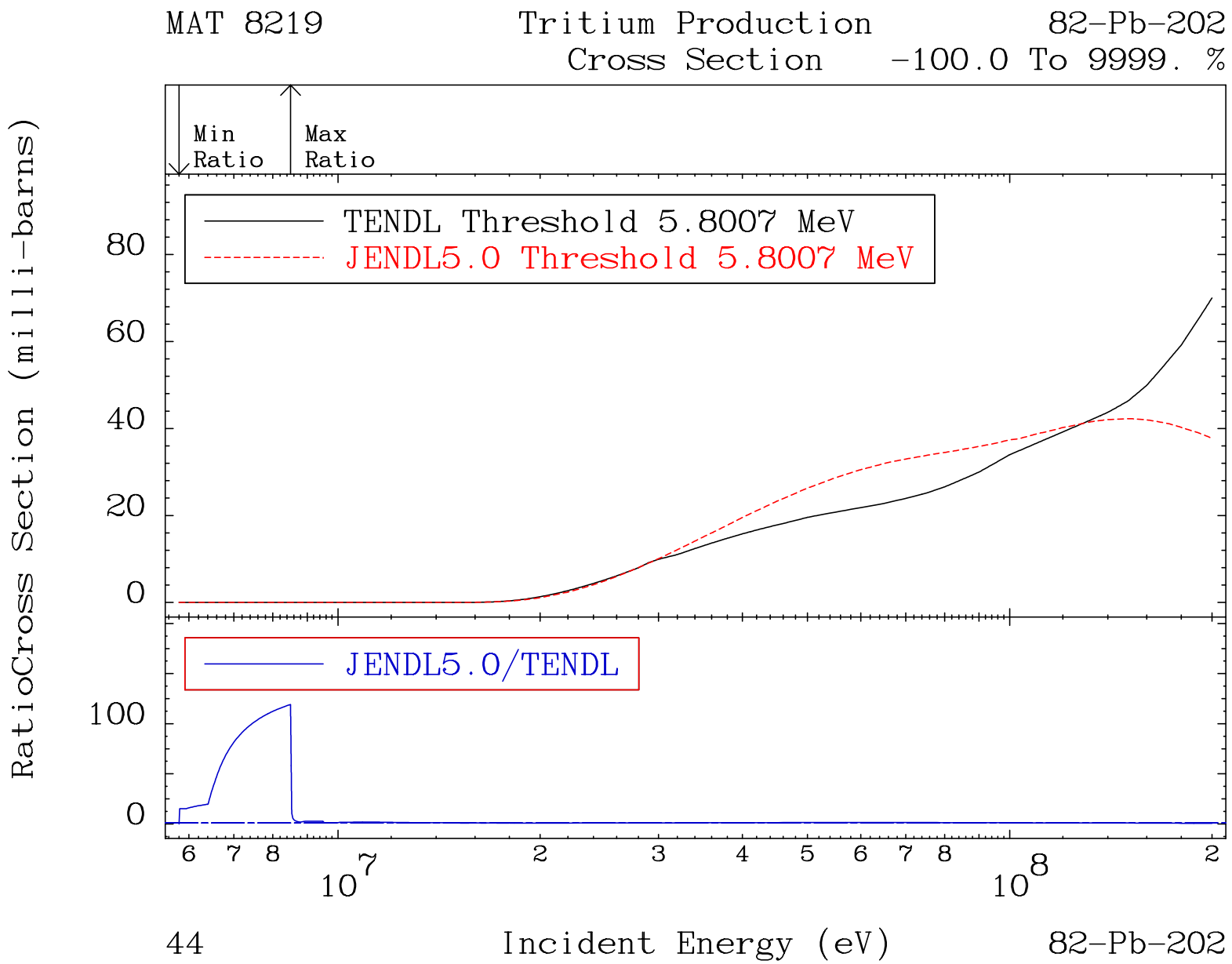

MAT 8219
(n,t)
82-Pb-202
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.8007 MeV
JENDL5.0 Threshold 5.8007 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
100
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
82-Pb-202

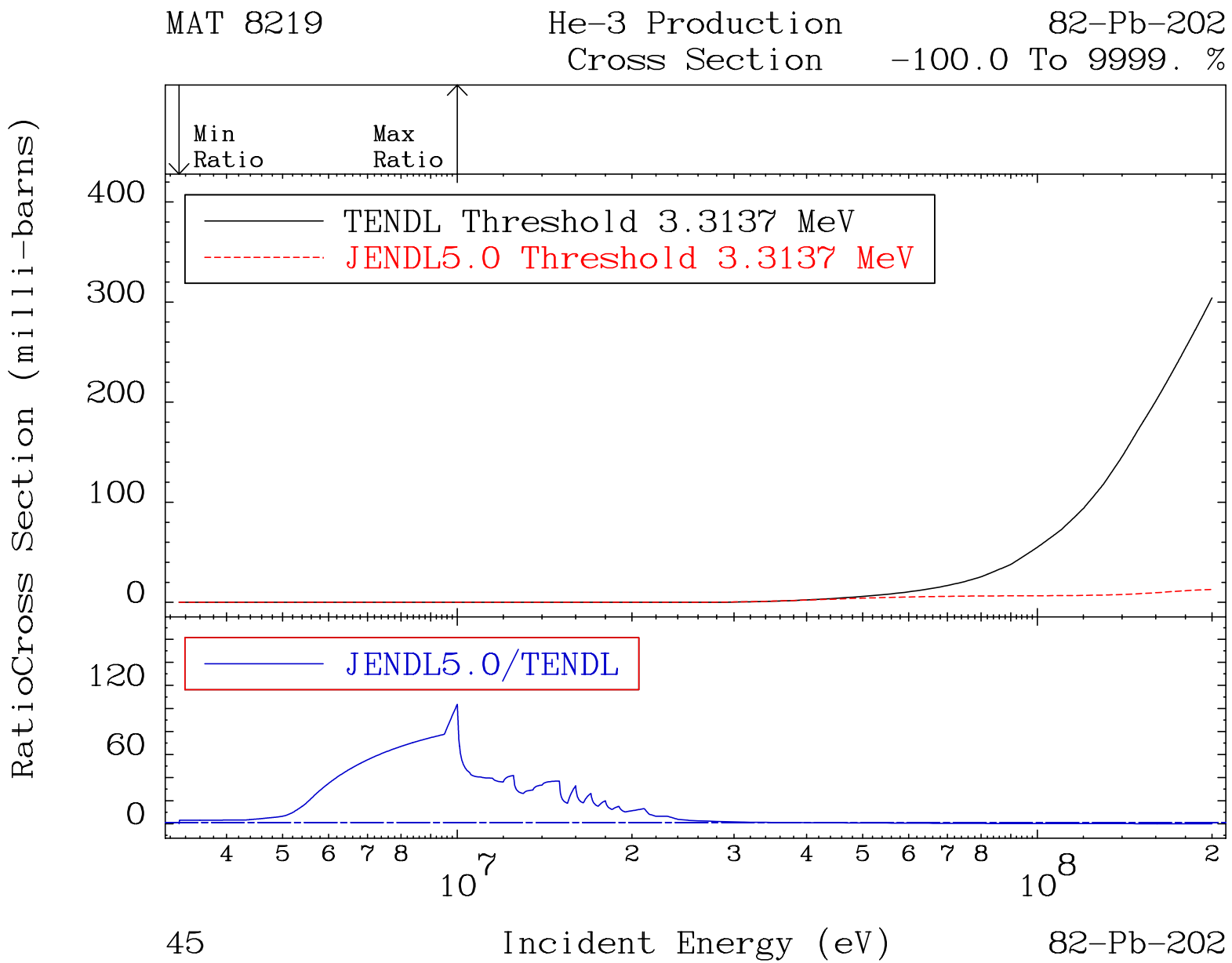

MAT 8219
(n,He-3)
82-Pb-202
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.3137 MeV
JENDL5.0 Threshold 3.3137 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
300
250
200
150
100
50
0
120
60
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
82-Pb-202

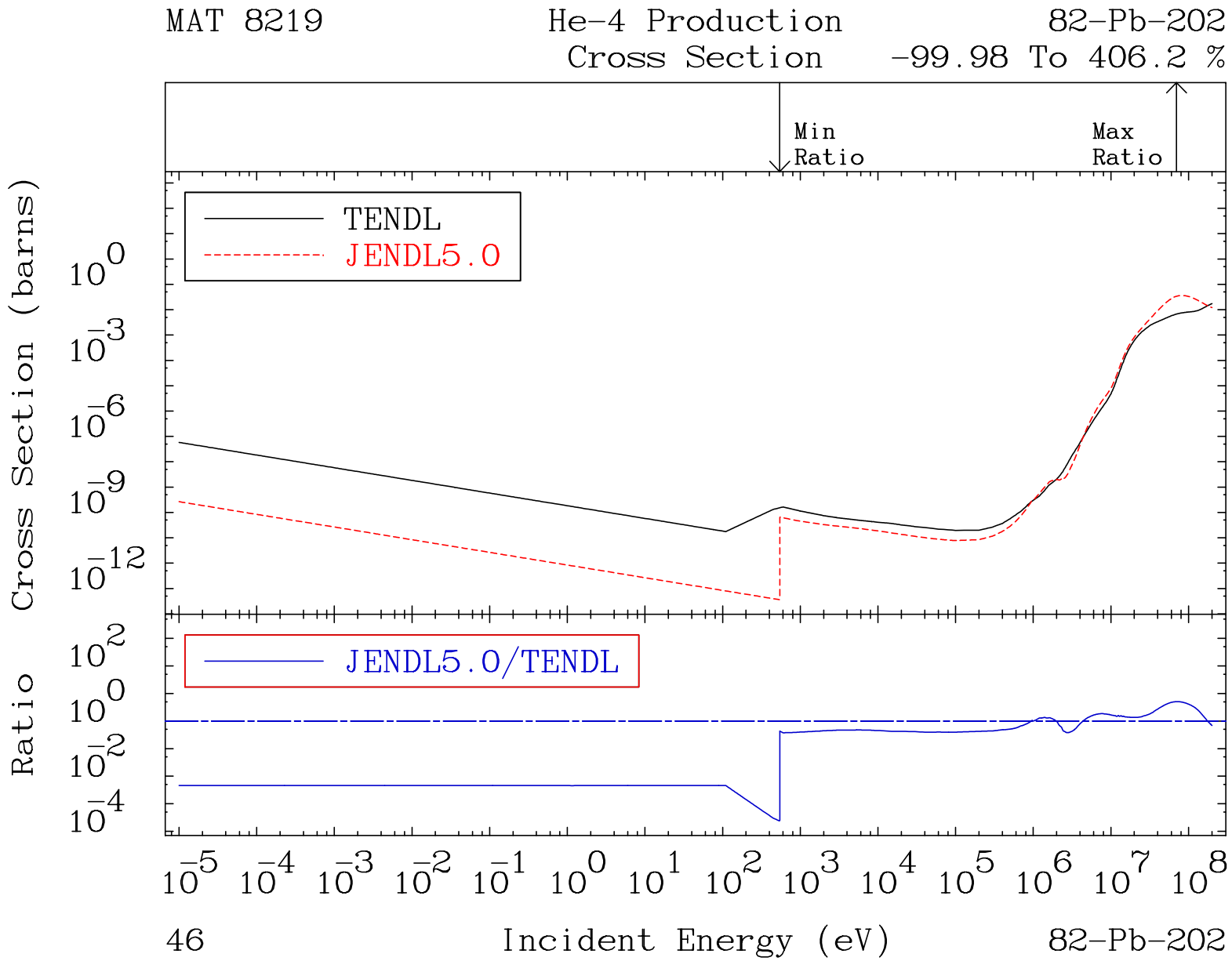

MAT 8219
(n,α)
Cross Section
82-Pb-202
-100.0 To 86.25 %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
41
82-Pb-202

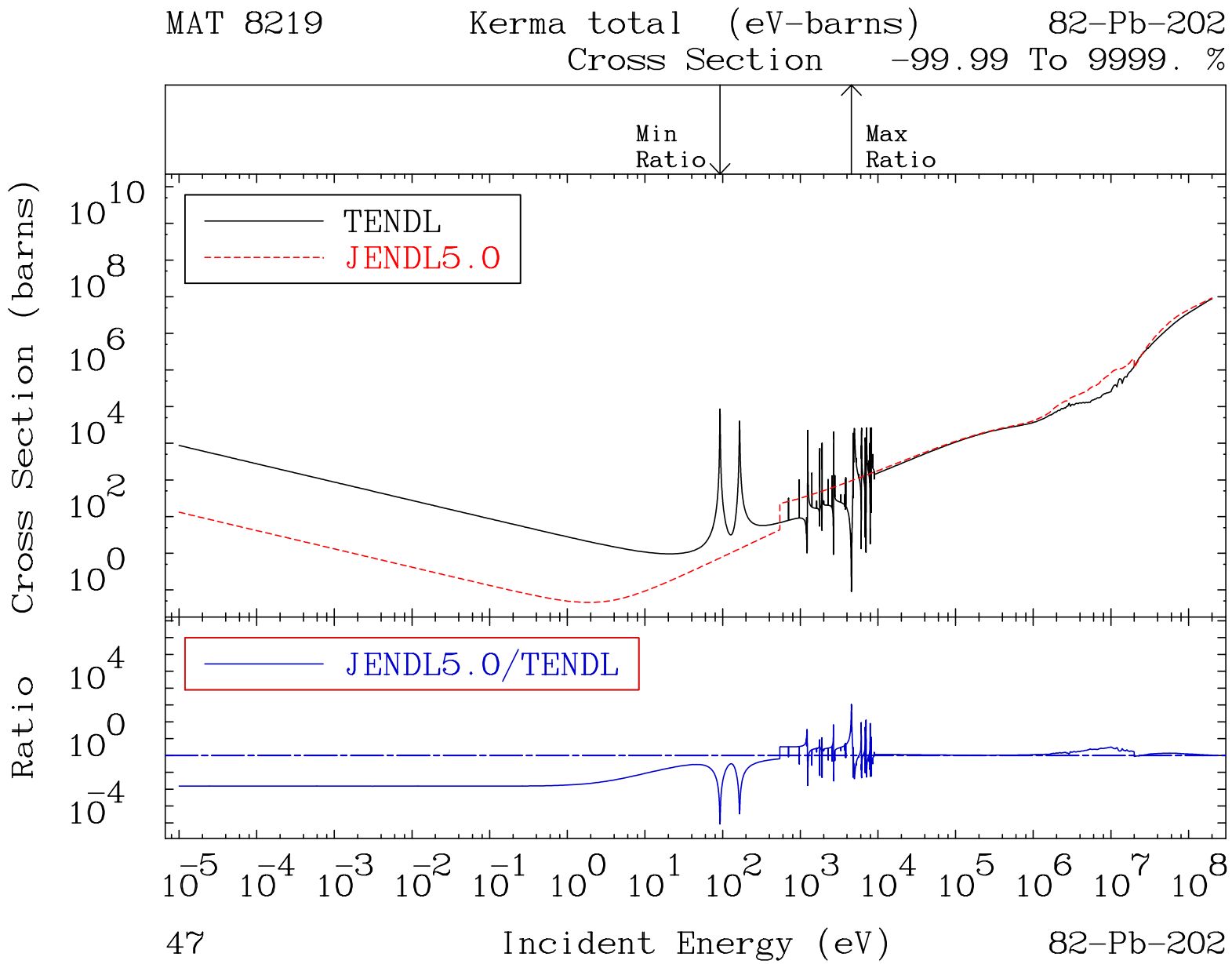

MAT 8219
Hydrogen Production
82-Pb-202
Cross Section
-100.0 To 370.1 %
Min Ratio
Max Ratio
TENDL Threshold 8.9232 keV
JENDL5.0 Threshold 101.15 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
82-Pb-202

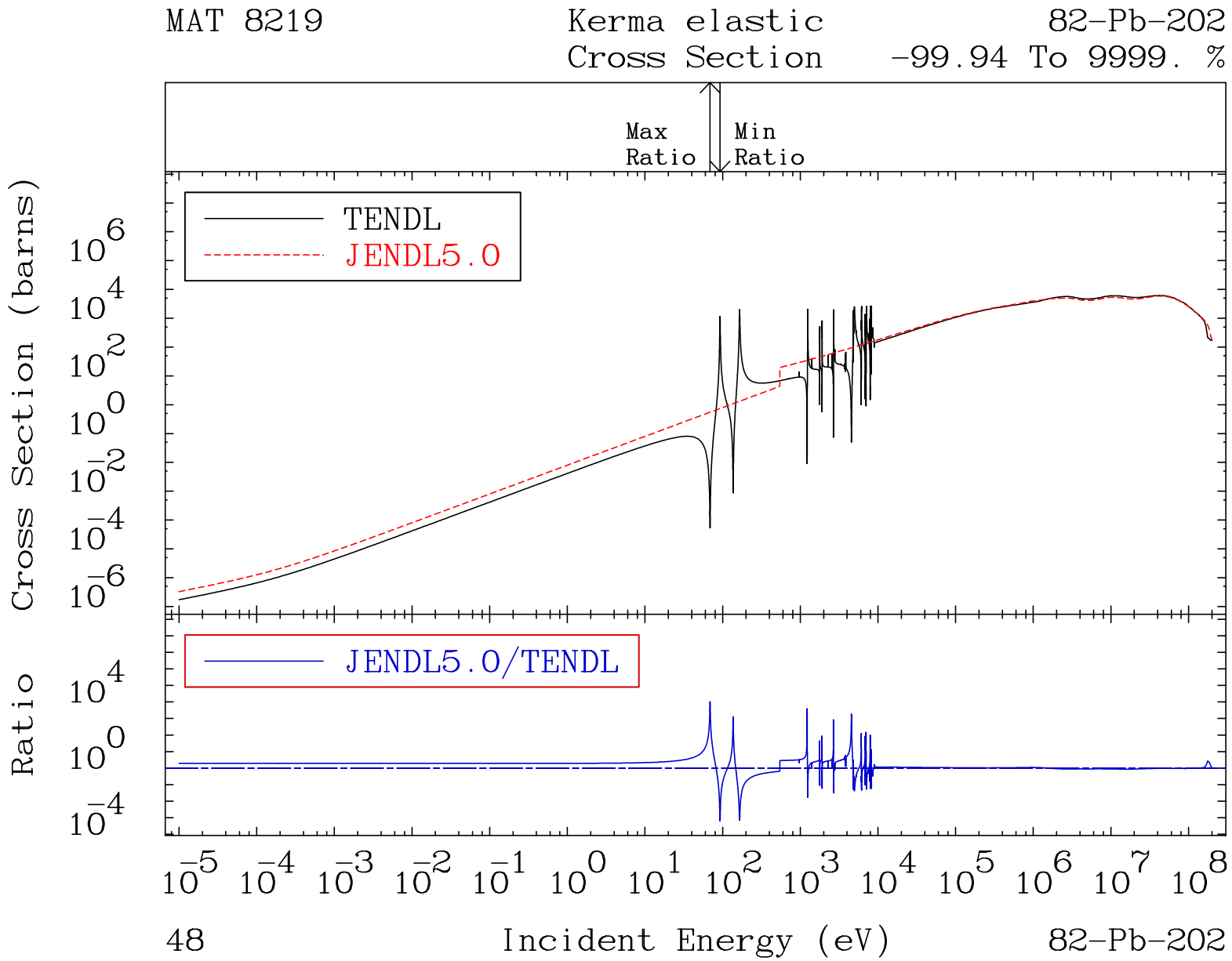

MAT 8219
Deuterium Production
82-Pb-202
Cross Section
-23.75 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.8433 MeV
JENDL5.0 Threshold 3.8433 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^4
10^2
10^0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
43
Incident Energy (eV)
82-Pb-202

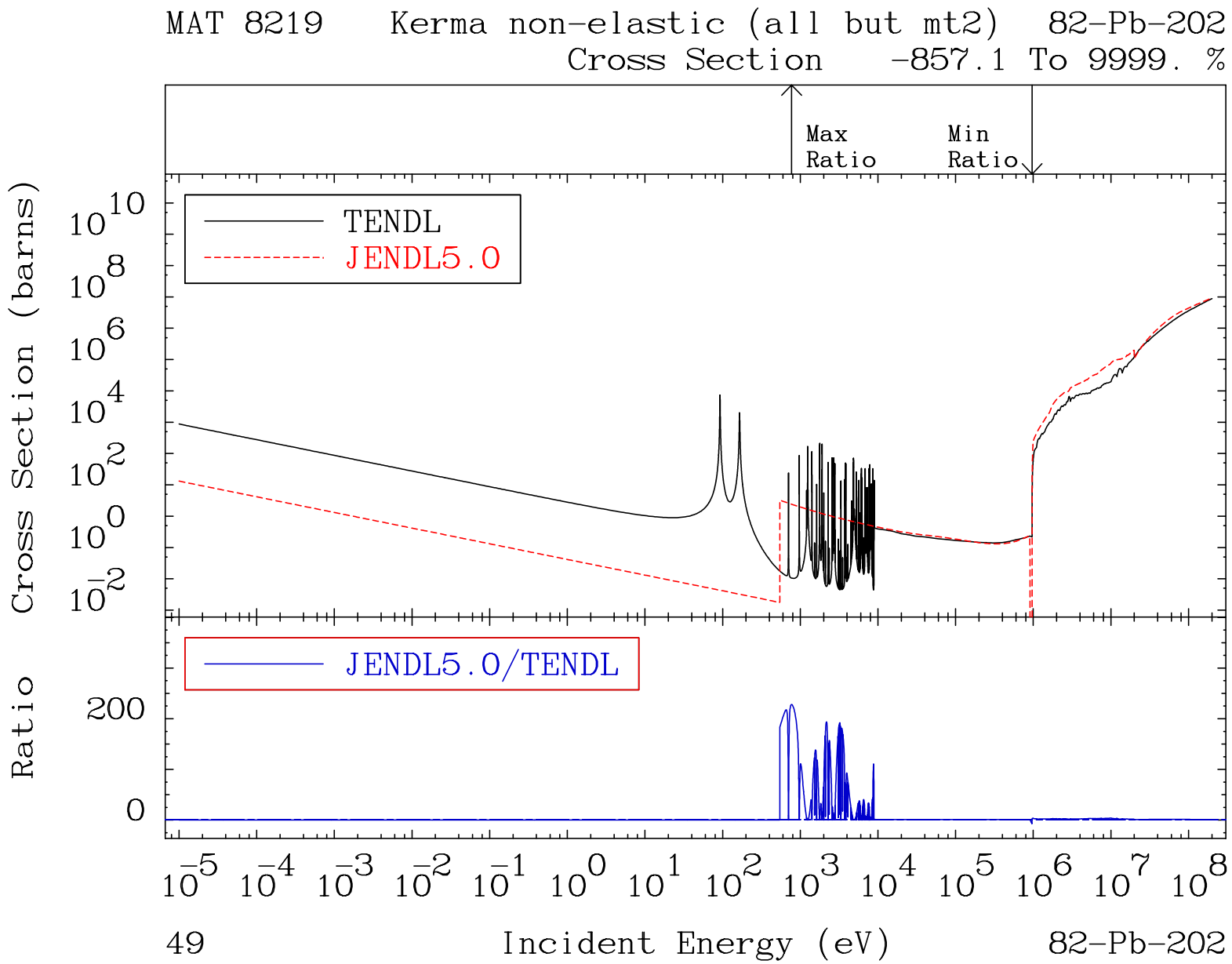

MAT 8219
Tritium Production
82-Pb-202
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.8007 MeV
JENDL5.0 Threshold 5.8007 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
100
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
82-Pb-202

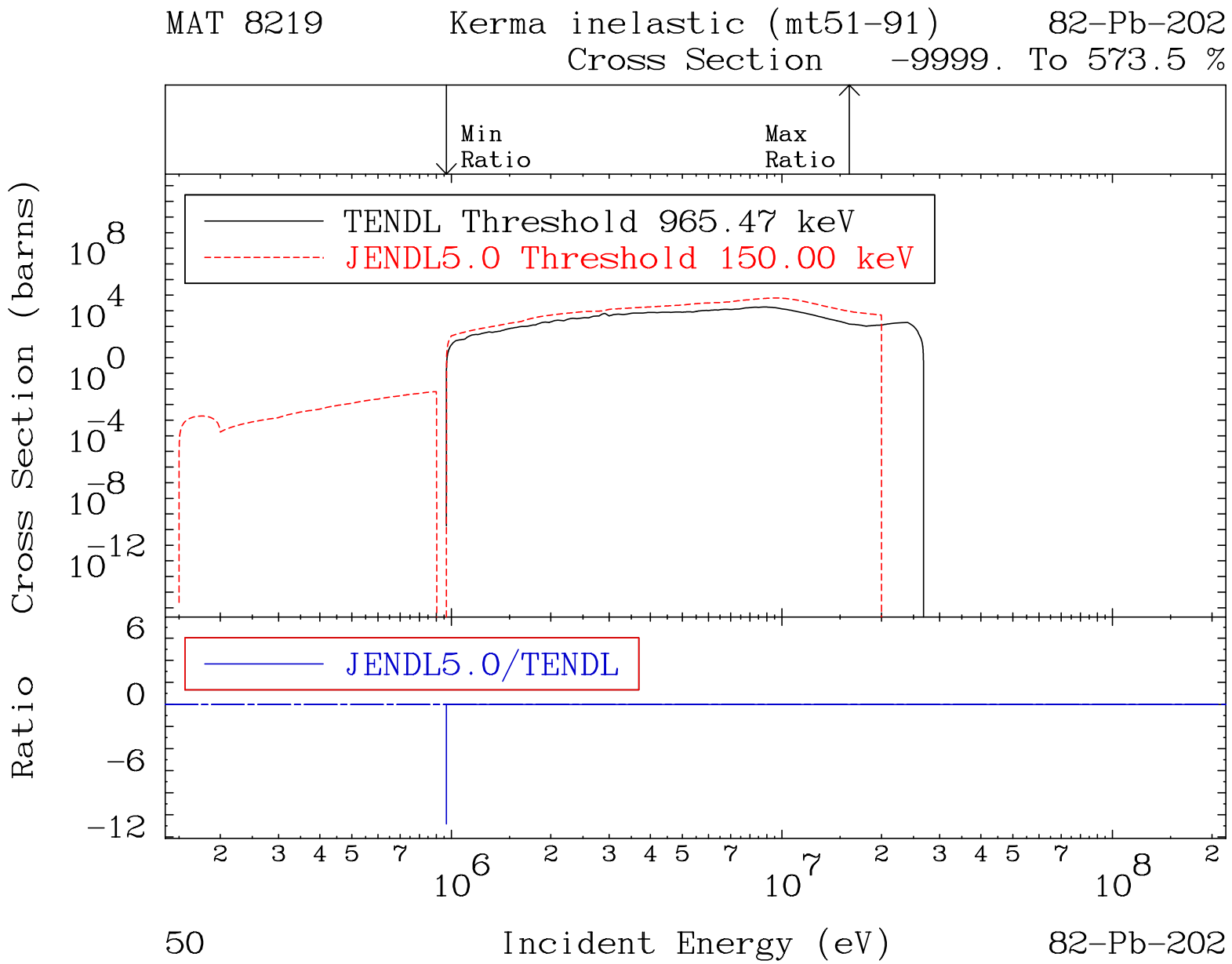

MAT 8219
He-3 Production
Cross Section
82-Pb-202
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.3137 MeV
JENDL5.0 Threshold 3.3137 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
120
60
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
82-Pb-202

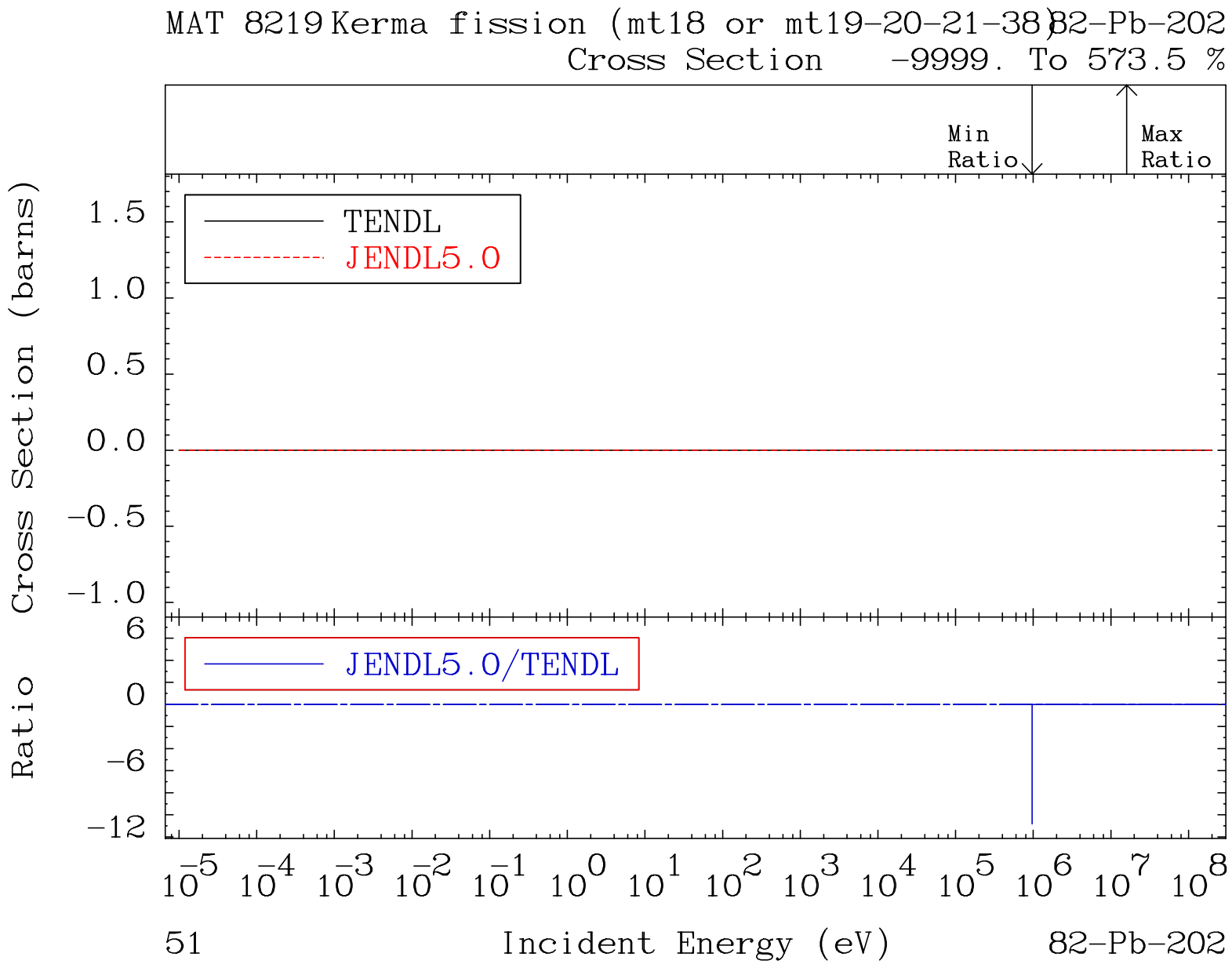

MAT 8219
He-4 Production
Cross Section
82-Pb-202
-99.98 To 406.2 %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
46
82-Pb-202

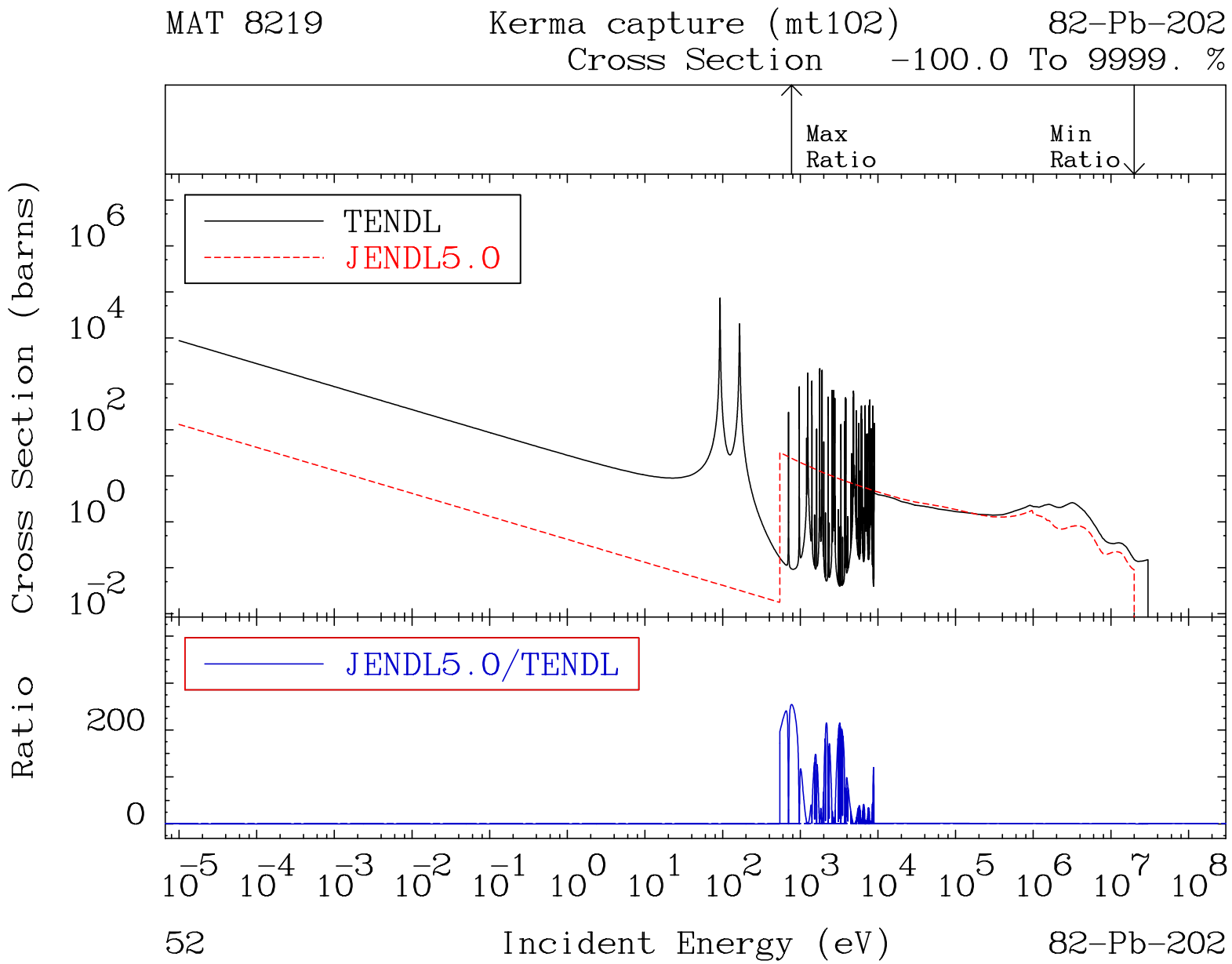

MAT 8219
Kerma total (eV-barns)
82-Pb-202
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
47
Incident Energy (eV)
82-Pb-202

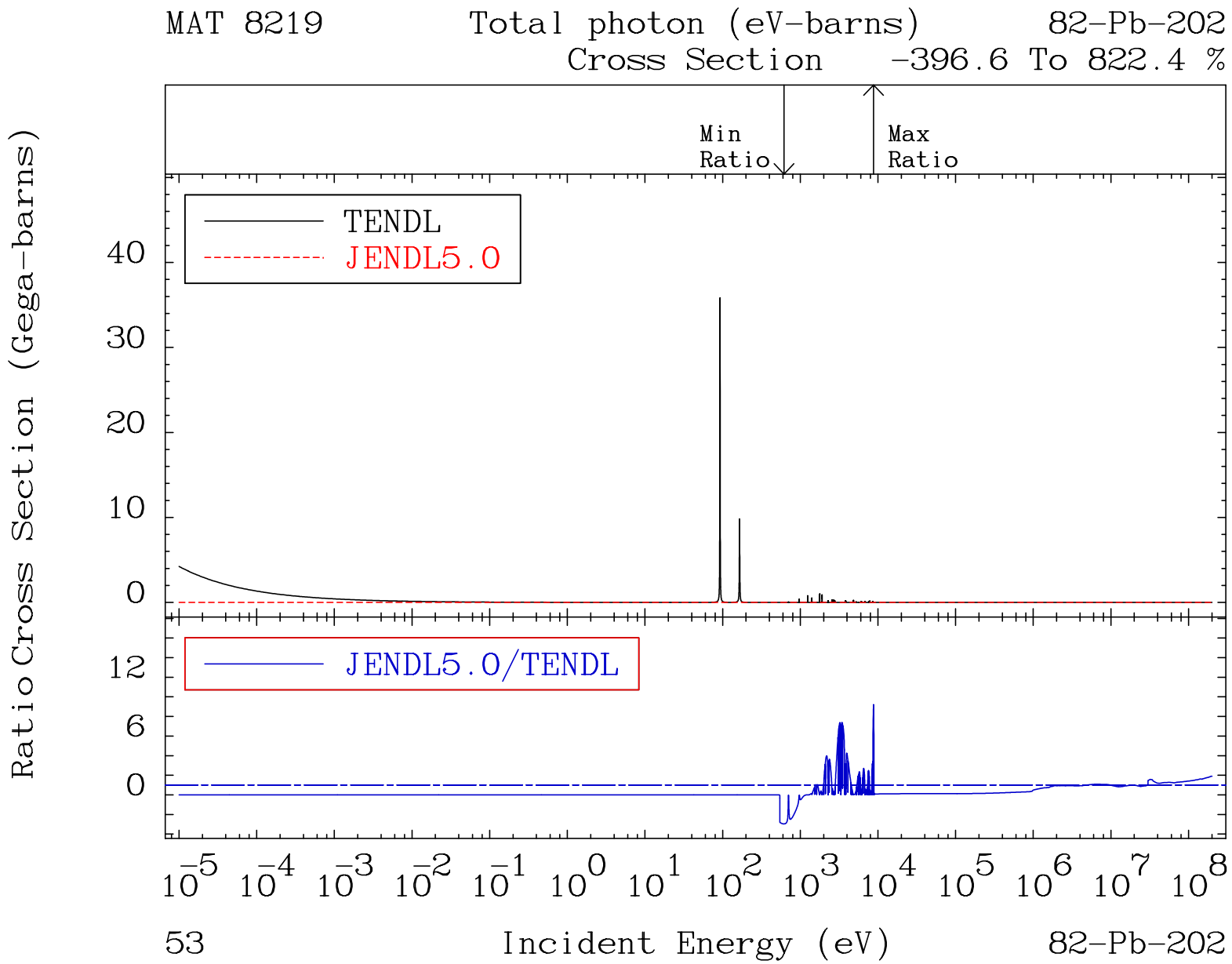

MAT 8219
Kerma elastic
Cross Section
82-Pb-202
-99.94 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
82-Pb-202

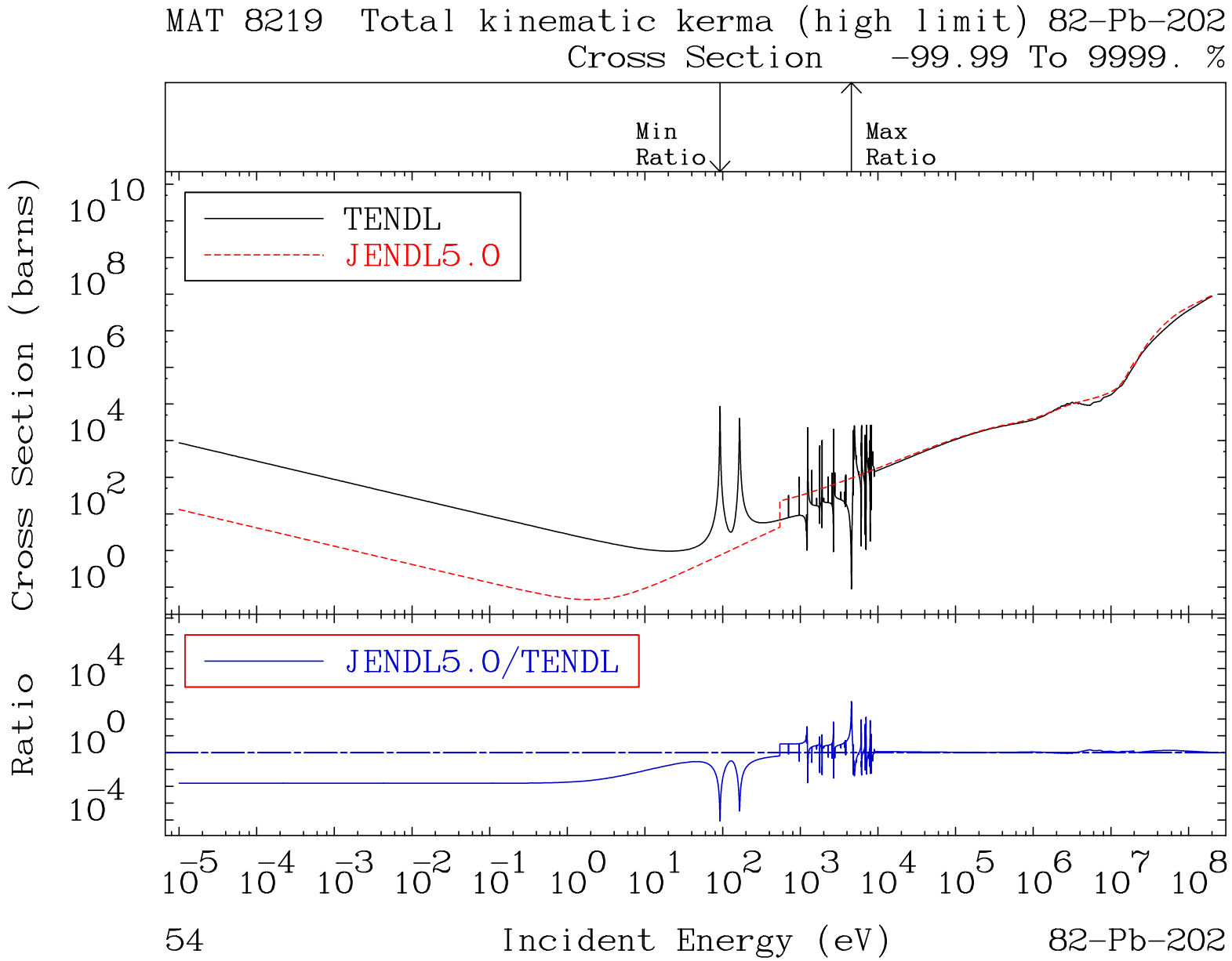

MAT 8219 Kerma non-elastic (all but mt2) 82-Pb-202
Cross Section -857.1 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
82-Pb-202

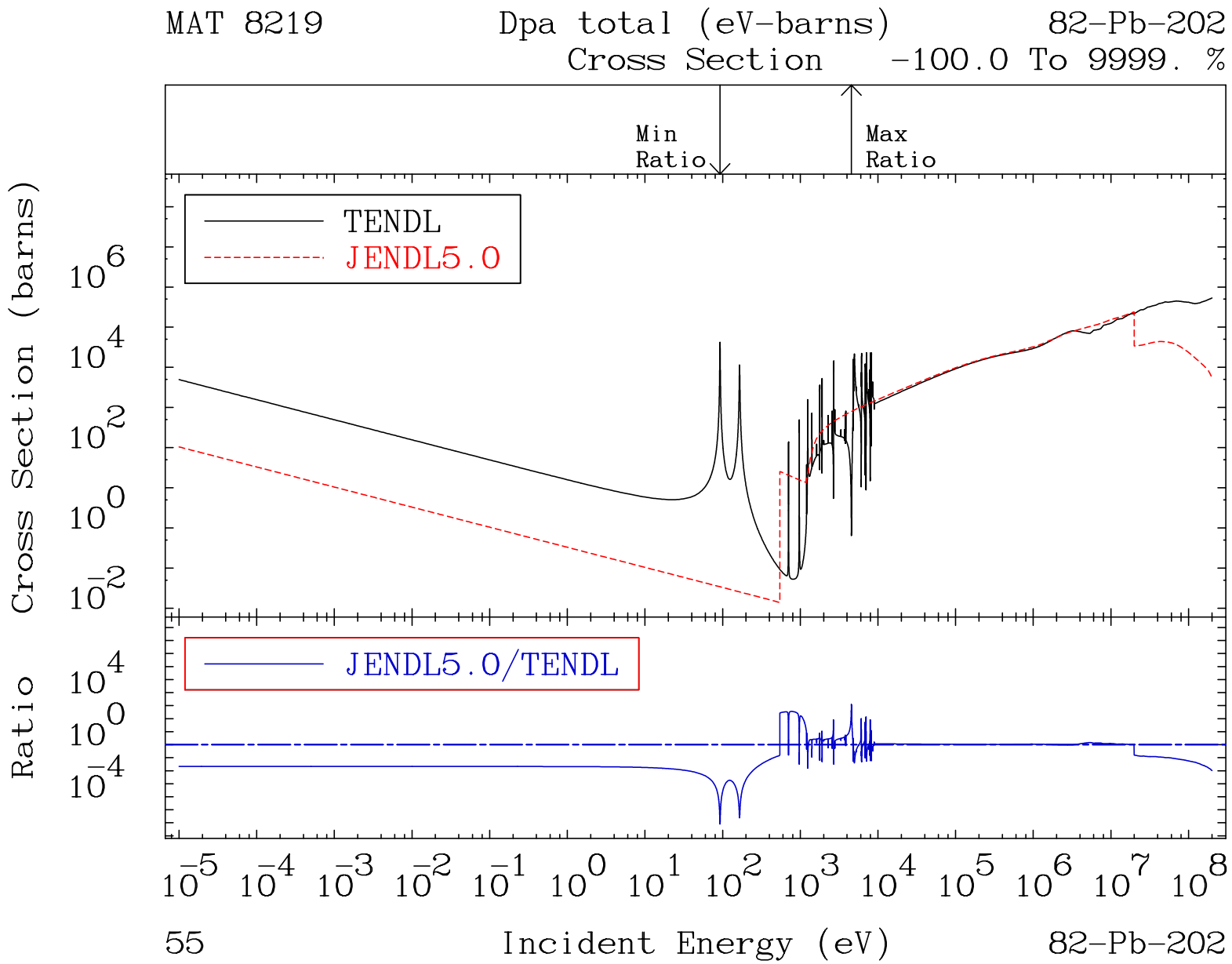

MAT 8219
Kerma inelastic (mt51-91)
82-Pb-202
Cross Section -9999. To 573.5 %
Min Ratio
Max Ratio
TENDL Threshold 965.47 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
50
82-Pb-202

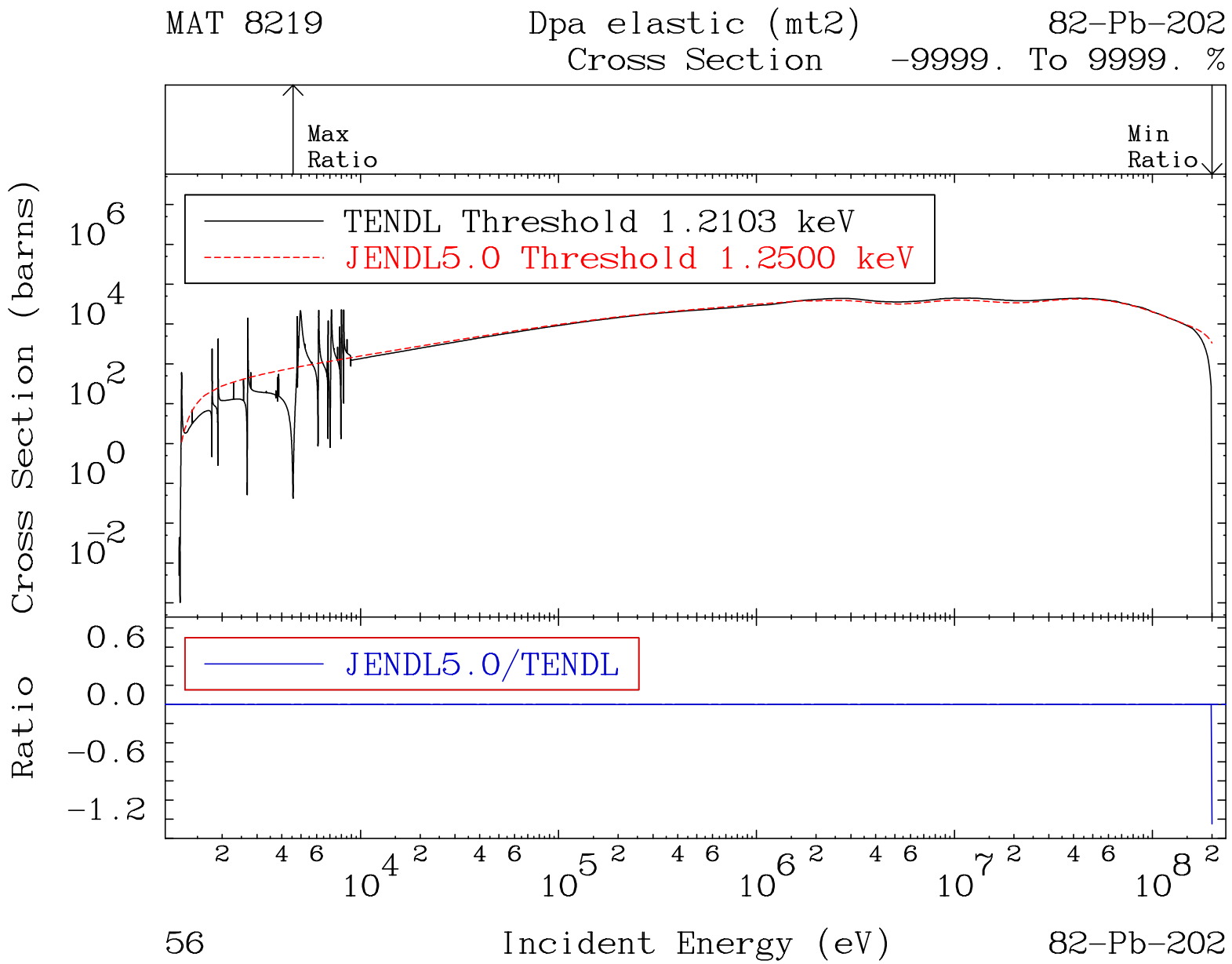

MAT 8219 Kerma fission (mt18 or mt19-20-21-38) 82-Pb-202
Cross Section -9999. To 573.5 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
6
0
-6
-12
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
51
Incident Energy (eV)
82-Pb-202

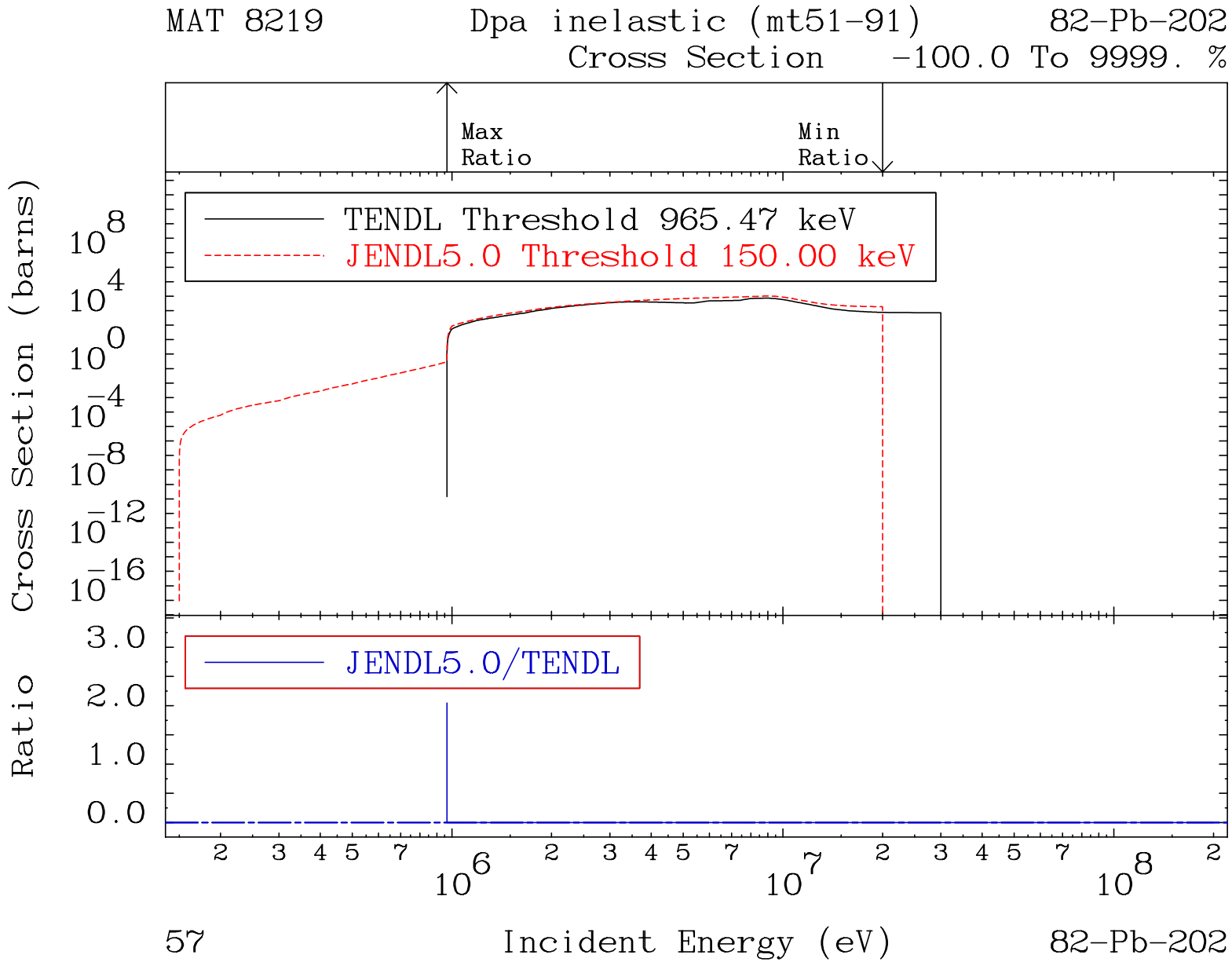

MAT 8219
Kerma capture (mt102)
82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
52
82-Pb-202

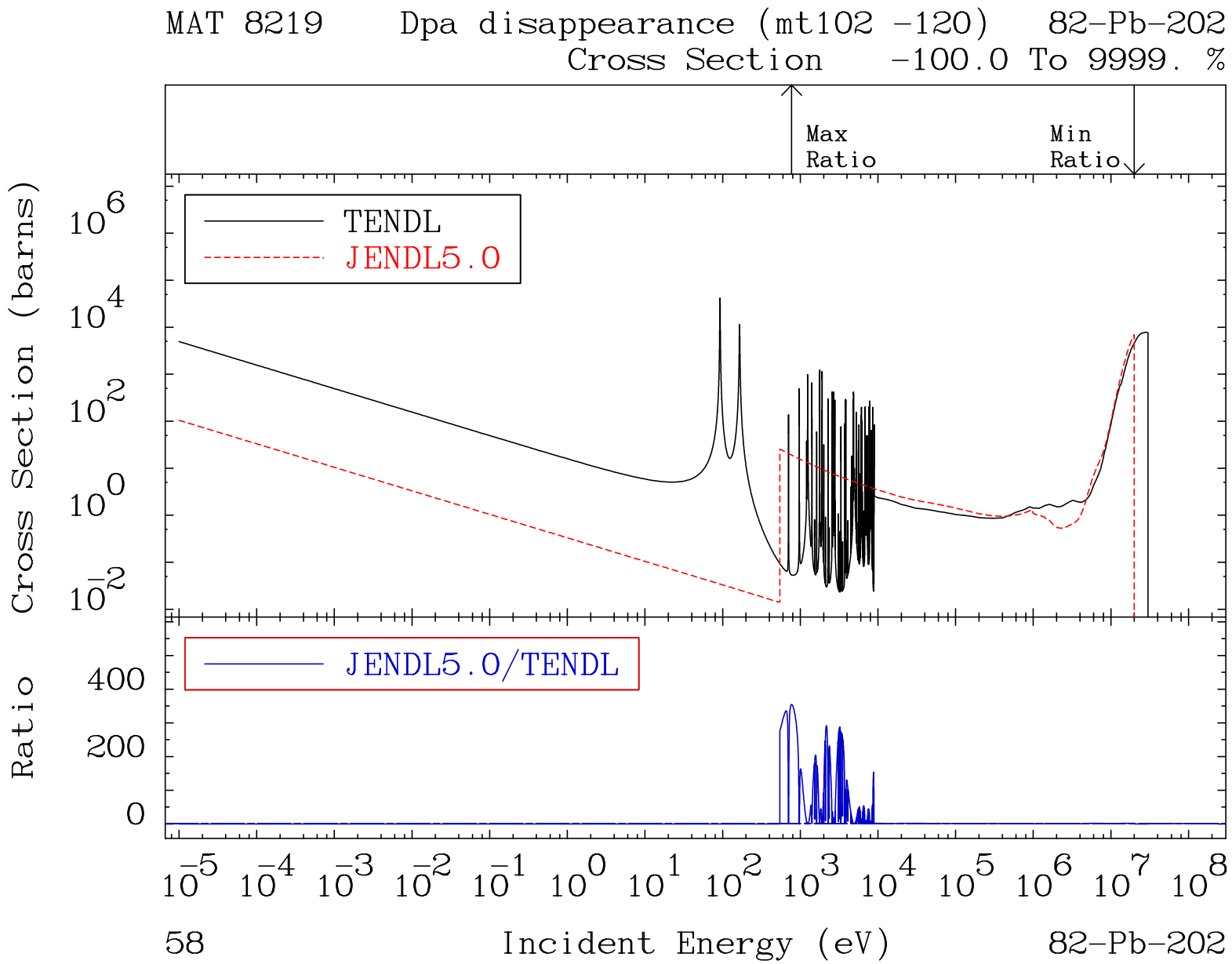

MAT 8219
Total photon (eV-barns)
82-Pb-202
Cross Section -396.6 To 822.4 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Giga-barns)
40
30
20
10
0
12
6
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
53
Incident Energy (eV)
82-Pb-202

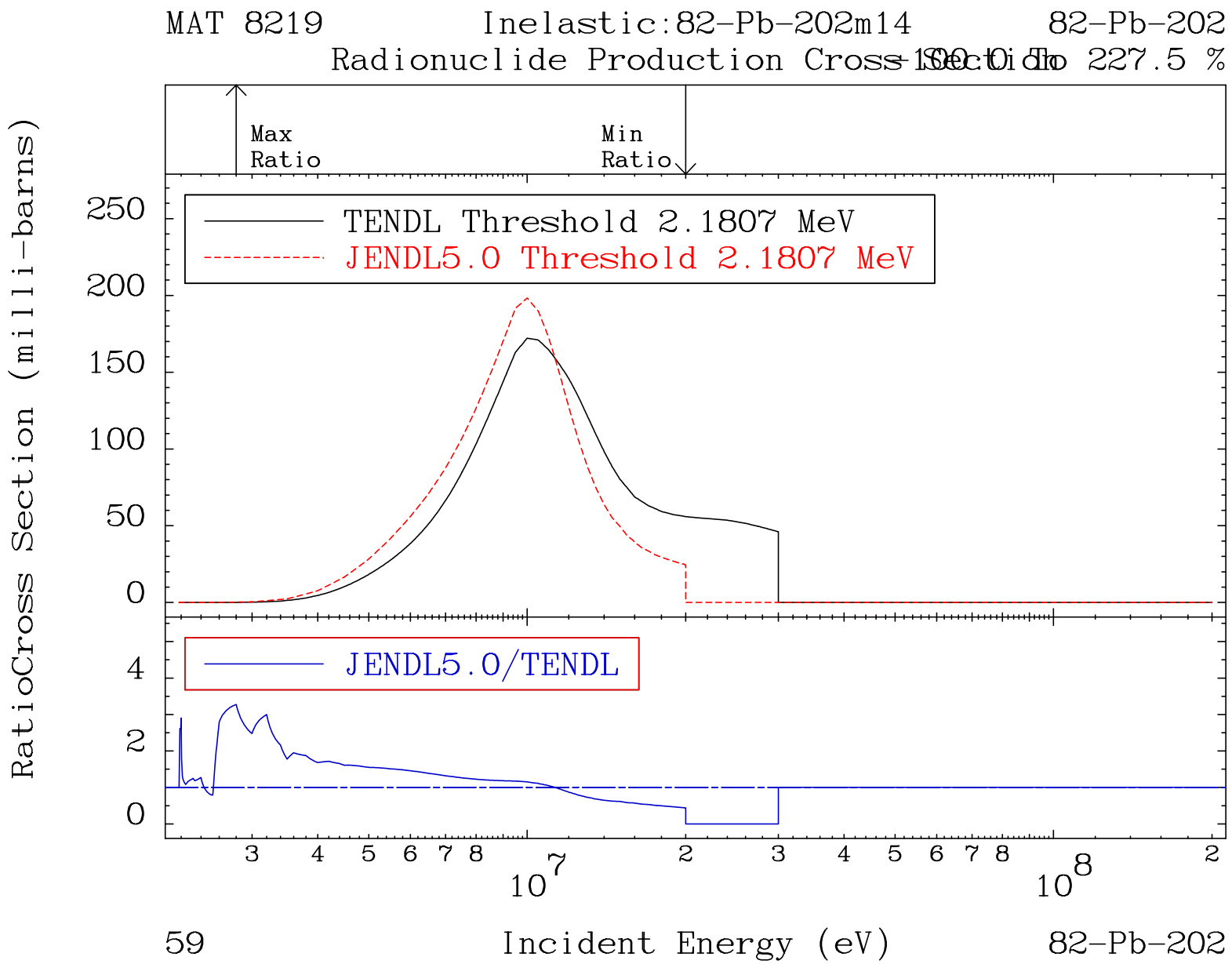

MAT 8219 Total kinematic kerma (high limit) 82-Pb-202
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
82-Pb-202

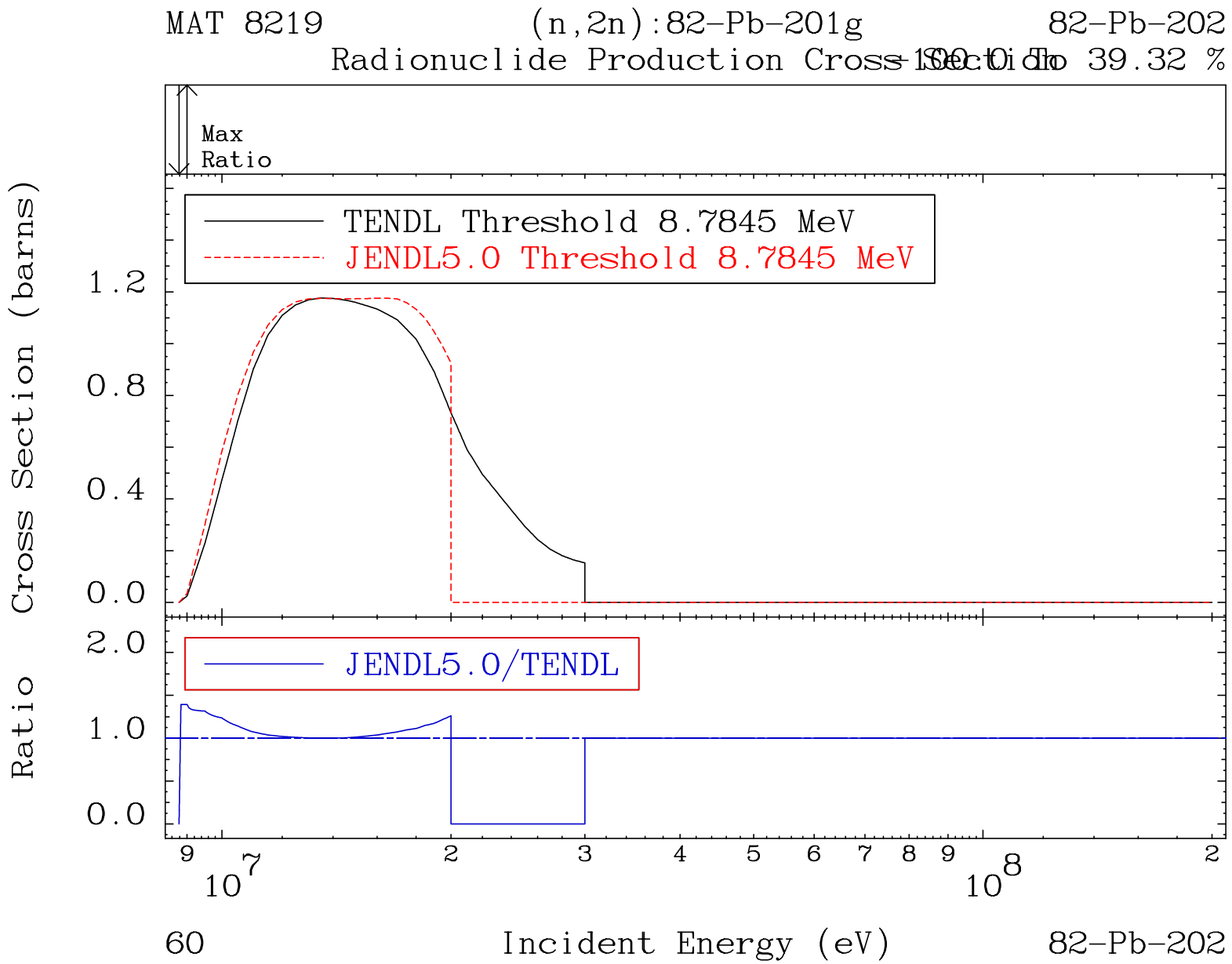

MAT 8219
Dpa total (eV-barns)
82-Pb-202
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
55
82-Pb-202

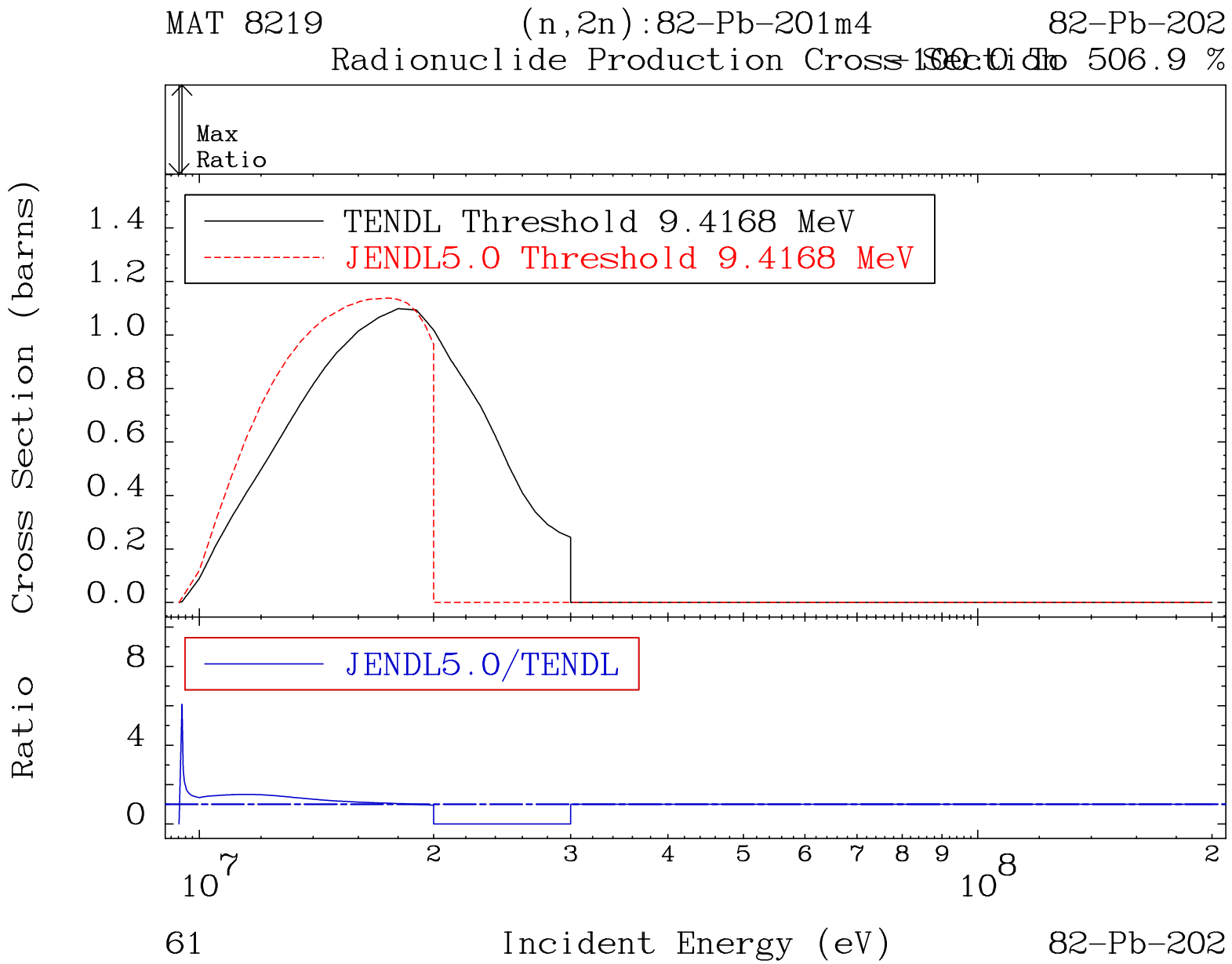

MAT 8219
Dpa elastic (mt2)
Cross Section
82-Pb-202
-9999. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.2103 keV
JENDL5.0 Threshold 1.2500 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
82-Pb-202


MAT 8219
Dpa inelastic (mt51-91)
82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 965.47 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
82-Pb-202


MAT 8219 Dpa disappearance (mt102 -120) 82-Pb-202
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
82-Pb-202


MAT 8219
Inelastic:82-Pb-202m14
82-Pb-202
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 2.1807 MeV
JENDL5.0 Threshold 2.1807 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
59
82-Pb-202


MAT 8219
(n,2n):82-Pb-201g
82-Pb-202
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 8.7845 MeV
JENDL5.0 Threshold 8.7845 MeV
Cross Section (barns)
1.2
0.8
0.4
0.0
JENDL5.0/TENDL
Ratio
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
82-Pb-202


MAT 8219
(n,2n):82-Pb-201m4
82-Pb-202
Radionuclide Production Cross Section To 506.9 %
Max
Ratio
TENDL Threshold 9.4168 MeV
JENDL5.0 Threshold 9.4168 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
8
4
0
10^7
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
82-Pb-202